

Program in Chronological Order

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ThKA	Amphitheater
Keynote Addresses (Keynote)	
Chair: Hudson, Donna	Univ of California, San Francisco
Co-Chair: Kim, Yongmin	Univ. of Washington
Co-Chair: Dittmar, Andre	INSA Lyon
10:00-10:45	ThKA.1
Microscale Bioengineering Inspired by Nature: From Widgets to Cell Biology , pp. 1-1.	
Beebe, David	Univ. of Wisconsin-Madison
10:45-11:30	ThKA.2
What Is the Added Value of Biomedical Engineering Technologies? , pp. 2-2.	
Healy, Jean-Claude	EU Telematics Programs
ThB01	
Time-Frequency and Time-Scale Analysis I (Oral Session)	
Chair: Flandrin, Patrick	CNRS - Ec. Normale Supérieure de Lyon
12:45-13:00	ThB01.1
The Use of Time-Frequency Distributions for Epileptic Seizure Detection in EEG Recordings , pp. 3-6.	
Tzallas, Alexandros	Univ. of Ioannina
Tsipouras, Markos G.	Univ. of Ioannina
Fotiadis, Dimitrios I.	Univ. of Ioannina
13:00-13:15	ThB01.2
A Feature Set for EEG Seizure Detection in the Newborn Based on Seizure and Background Characteristics , pp. 7-10.	
Stevenson, Nathan	Univ. of Queensland
Mesbah, Mostefa	Univ. of Queensland
Boashash, Boualem	Univ. of Queensland
13:15-13:30	ThB01.3
Robust Time-Frequency Analysis of Newborn EEG Seizure Corrupted by Impulsive Artefacts , pp. 11-14.	
Brotchie, James Peter	Univ. of Queensland
Rankine, Luke	Univ. of Queensland
Mesbah, Mostefa	Univ. of Queensland
Colditz, Paul	Univ. of Queensland
Boashash, Boualem	Univ. of Queensland
13:30-13:45	ThB01.4
Depth of Anesthesia Index Using Cumulative Power Spectrum , pp. 15-18.	
Jospin, Mathieu	Tech. Univ. of Catalonia (UPC)
Caminal, Pere	Tech. Univ. of Catalonia (UPC)
Jensen, Erik Weber	danmeter
Vallverdu, Montserrat	Tech. Univ. of Catalonia
Struys, Michel	Ghent Univ. Hospital
Vereecke, Hugo	Ghent Univ. Hospital
Kaplan, Daniel T.	Macalester Coll.
13:45-14:00	ThB01.5
EEG Analysis in Wakefulness Maintenance State against Sleepiness by Instantaneous Equivalent Bandwidths , pp. 19-22.	
Yoshida, Hisashi	Kinki Univ.
14:00-14:15	ThB01.6
Study of the EEG Changes During the Combined Ingestion of Alcohol and H1-Antihistamines by Using the Wavelet Transform , pp. 23-26.	
Poza, Jesús	Univ. de Valladolid
Caminal, Pere	Tech. Univ. of Catalonia (UPC)
Vallverdu, Montserrat	Tech. Univ. of Catalonia
Hornero, Roberto	Univ. of Valladolid
Romero, Sergio	Tech. Univ. of Catalonia (UPC)
Barbanoj, Manuel	Farmacología Clínica. Hospital de la Santa Creu i Sant Pau
ThB02	
Signal Processing and Physiological System Modeling I (Oral Session)	
Chair: Istepanian, Robert	Kingston Univ.
12:45-13:00	ThB02.1
Accuracy of Local Conduction Velocity Determination from Non-Fractionated Cardiac Activation Signals , pp. 27-30.	
Wiener, Thomas	Medical Univ. of Graz
Turner, Thomas	Graz Univ. of Tech.
Prassl, Anton J.	Medical Univ. of Graz
Plank, Gernot	Medical Univ. of Graz
Hofer, Ernst	Medical Univ. Graz

13:00-13:15		ThB02.2
Lost Sample Recovering of ECG Signals in E-Health Applications , pp. 31-34.		
Prieto Guerrero, Alfonso		Univ. Autonoma Metropolitana
Mailhes, Corinne		ENSEEIH
CASTANIE, Francis		TESA
13:15-13:30		ThB02.3
Phase-Rectified Signal Averaging: A Useful Tool for the Estimation of the Dominant Frequency in ECG Signals During Atrial Fibrillation , pp. 35-38.		
Lemay, Mathieu		EPFL
Prudat, Yann		EPFL
Jacquemet, Vincent		Duke Univ.
Vesin, Jean-Marc		EPFL
13:30-13:45		ThB02.4
Clinical Quality Guarantee in Real-Time ECG Compression , pp. 39-42.		
Alesanco, Alvaro		Univ. of Zaragoza
García Moros, José		Univ. of Zaragoza
Serrano, Pedro		Clinical Hospital Lozano Blesa
Ramos, Luciano		Hospital of Santa Marina
Portolés, Ana		Miguel Servet Hospital
Istepanian, Robert		Kingston Univ.
13:45-14:00		ThB02.5
Artifact Reduction in Maternal Abdominal ECG Recordings for Fetal ECG Estimation , pp. 43-46.		
Vullings, Rik		Eindhoven Univ. of Tech.
Peters, Christiaan Hendrik Leonard		Máxima Medical Center
Mischi, Massimo		Eindhoven Univ. of Tech.
Sluijter, Rob		Eindhoven Univ. of Tech.
Oei, S. Guid		Maxima Medisch Centrum, Veldhoven
Bergmans, Johannes Wilhelmus Maria		Eindhoven Univ. of Tech.
14:00-14:15		ThB02.6
Prediction of Respiratory Measurements Based on Cross Embedding Techniques , pp. 47-50.		
Rathnayake, Suren Indrajith		Univ. of Queensland, Australia
Abeyratne, Udantha R		Univ. of Queensland
ThB03		Bellecour 1
Contrast-Enhanced MRI (Oral Session)		
Chair: Wiart, Marlene		Univ. of Lyon, Creatis, UMR CNRS 5220, U630Inserm,INSA de Lyon
Co-Chair: Liang, Zhi-Pei		Univ. of Illinois, Urbana-Champaign
12:45-13:00		ThB03.1
Manganese-Enhanced MRI Detected the Gray Matter Lesions in the Late Phase of Mild Hypoxic-Ischemic Injury in Neonatal Rat , pp. 51-54.		
Yang, Jian		The Univ. of Hong Kong
Wu, Ed X.		The Univ. of Hong Kong
13:00-13:15		ThB03.2
Visualization of Quantitative Breast DCE-MRI Functional Parametric Maps by Dedicated Image Processing , pp. 55-58.		
Bracco, Christian		Istitute for Cancer Res. and Treatment
Martincich, Laura		Istitute for Cancer Res. and Treatment
Regge, Daniele		Istitute for Cancer Res. and Treatment
becchio, marco		Im3D S.p.A.
persano, diego		ISI foundation
Bert, Alberto		ISI foundation
Rizzo, Giovanna		National Res. Council (CNR)
13:15-13:30		ThB03.3
Improved Detection of Liver Metastasis by Registration and Subtraction of Dynamic Contrast-Enhanced Magnetic Resonance Imaging , pp. 59-62.		
Passera, Katia		Pol. di Milano
Mainardi, Luca		Pol. di Milano
Setti, Ernesto		Istituto Nazionale dei Tumori
Potepan, Paolo		Istituto Nazionale dei Tumori
13:30-13:45		ThB03.4
DyCoH: An Innovative Tool to Dynamic Contrast Enhancement Analysis , pp. 63-66.		
Setola, Roberto		Univ. Bio-Medico di Roma
Beomonte Zobel, Bruno		Univ. CAMPUS Bio-Medico
Grasso, Rosario Francesco		Univ. CAMPUS Bio-Medico
Russo, Valentina		Univ. CAMPUS Bio-Medico
Del Vecchio, Riccardo		Univ. CAMPUS Bio-Medico
13:45-14:00		ThB03.5
Evaluation of the Visual System in a Rat Model of Chronic Glaucoma Using Manganese-Enhanced Magnetic Resonance Imaging , pp. 67-70.		
Chan, Kevin C.		The Univ. of Hong Kong
Fu, Qing-ling		The Univ. of Hong Kong
So, Kwok-fai		The Univ. of Hong Kong
Wu, Ed X.		The Univ. of Hong Kong

14:00-14:15 ThB03.6
An Evaluation of Four Parametric Models of Contrast Enhancement for Dynamic Magnetic Resonance Imaging of the Breast, pp. 71-74.
 Gal, Yaniv Univ. of Queensland
 Mehnert, Andrew James Heinrich The Univ. of Queensland
 Bradley, Andrew Peter Univ. of Queensland
 McMahon, Kerry Greenslopes Private Hospital
 Crozier, Stuart The Univ. of Queensland

ThB04 Bellecour 3

Elastography and Tissue Motion (Oral Session)

Co-Chair: Magnin, Isabelle INSA

12:45-13:00 ThB04.1

Locally Regularized Strain Field Estimation for Freehand Elastography, pp. 75-78.
 Brusseau, Elisabeth UMR CNRS5515
 Deprez, Jean-François UMR CNRS5515 INSERM U630
 Duboeuf, Francois INSERM
 Basset, Olivier Univ. Lyon1, INSA-Lyon, CNRS UMR 5220, INSERM U630.

13:00-13:15 ThB04.2

3D Elastography for Early Detection of Lesions. Evaluation on a Pressure Ulcer Mimicking Phantom, pp. 79-82.
 Deprez, Jean-François INSA Lyon
 Cloutier, Guy Lab. of Biorheology and Medical Ultrasonics
 Schmitt, Cédric Univ. of Montreal Hospital Res. Center
 Gehin, Claudine INSA Lyon
 Dittmar, Andre INSA Lyon
 Basset, Olivier Univ. Lyon1, INSA-Lyon, CNRS UMR 5220, INSERM U630.
 Brusseau, Elisabeth UMR CNRS5515

13:15-13:30 ThB04.3

Acoustic Elastography under Dynamic Compression Using One-Dimensional Track Motion, pp. 83-86.
 Pereira Neves, Lucio Univ. de São Paulo
 Jiang, Jingfeng Univ. of Wisconsin
 J. Hall, Timothy Univ. of Wisconsin
 Carneiro, Antonio Univ. de São Paulo

13:30-13:45 ThB04.4

Fast B-Mode Ultrasound Image Simulation of Deformed Tissue, pp. 87-90.
 Goksel, Orcun Univ. of British Columbia
 Salcudean, Septimiu E. Univ. of British Columbia

13:45-14:00 ThB04.5

Non-Rigid Registration of Three-Dimensional (3D) Grayscale and Doppler Ultrasound Breast Images, pp. 91-94.
 Narayanasamy, Ganesh Univ. of Michigan
 LeCarpentier, Gerald Univ. of Michigan
 Zabuawala, Sakina Univ. of Michigan, Ann Arbor, MI
 Fowlkes, Brian Univ. of Michigan
 Roubidoux, Marilyn Univ. of michigan
 Sinha, Sumedha Univ. of Michigan
 Carson, Paul L. Univ. of Michigan

14:00-14:15 ThB04.6

Motion Tracking on Elbow Tissue from Ultrasonic Image Sequence for Patients with Lateral Epicondylitis, pp. 95-98.
 Liu, Yuh-Hwan Chia Nan Univ. of Pharmacy and Science
 Chen, Shu-Min National Cheng Kung Univ.
 Lin, Chi-Yi National Cheng-Kung Univ.
 Huang, Chung-I National Cheng-Kung Univ.
 Sun, Yung-Nien National Cheng Kung Univ.

ThB05 Tête d'Or Lounge

Chemo/bio Sensing, Materials, Surfaces and Analysis (Oral Session)

Chair: Laureyn, Wim IMEC

12:45-13:00 ThB05.1

A Microsensor for the Detection of a Single Pathogenic Bacterium Using Magnetotactic Bacteria-Based Bio-Carriers: Simulations and Preliminary E, pp. 99-102.
 Denomme, Ryan Nanorobtics Lab. Ec. Pol. de Montreal
 lu, zhao Ec. Pol. de Montreal
 Martel, Sylvain Ec. Pol. de Montreal

13:00-13:15 ThB05.2

Design and Characterization of a Nano-Encapsulated Self-Referenced Fluorescent Nitric Oxide Sensor for Wide-Field Optical Imaging, pp. 103-106.
 Zhang, Guodong Clarkson Univ.
 Shu, Florence Clarkson Univ.
 Robinson, Charles Clarkson Univ.

13:15-13:30		ThB05.3
Polymer Semiconductors As a Biosensing Platform: Peroxidase Activity of Enzyme Bound to Organic Semiconducting Films , pp. 107-110.		
Omari, Eenas		Univ. of Wisconsin - Milwaukee
Klemer, David		Univ. of Wisconsin - Milwaukee
Steeber, Douglas		Univ. of Wisconsin - Milwaukee
Gaertner, William		Univ. of Wisconsin - Milwaukee
13:30-13:45		ThB05.4
Polymer Based Microchip for Combined Capillary Electrophoresis and Electrochemical Detection , pp. 111-114.		
Rashid, Mamun		Univ. of Teesside
Auger, Vincent		Univ. of Teesside
Williams, Lee		Univ. of Sunderland
Dou, Yuehua		The Univ. of Glasgow
Pruneanu, Stela		Newcastle Univ.
Ali, Zulfiquir		Univ. of Teesside
13:45-14:00		ThB05.5
A Novel Point of Care Diagnostic Device: Impedimetric Detection of a Biomarker in Whole Blood , pp. 115-118.		
McMurray, Amanda Anne		Univ. of Teesside
Ali, Zulfiquir		Univ. of Teesside
Kyselovic, Jan		Comenius Univ. Bratislava
Mills, Christopher		Bioengineering Inst. of Catalonia (IBEC)
Jaffrezic-Renault, Nicole		Claude Bernard Univ. Lyon 1
Santha, Hunor		Budapest Univ. of Tech. and Ec.
Strohhöfer, Christof		Fraunhofer IZM
14:00-14:15		ThB05.6
An Integrated Biosensor for the Detection of Bio-Entities Using Magnetotactic Bacteria and CMOS Technology , pp. 119-122.		
El Fouladi, Jaouad		Ec. Pol. de Montreal
Lu, Zhao		Ec. Pol. de Montreal
Savaria, Yvon		Ec. Pol. de Montreal
Martel, Sylvain		Ec. Pol. de Montreal
ThB06		Tête d'Or 2
Bioinformatics Algorithms I (Oral Session)		
Chair: Wang, May Dongmei		Georgia Tech. and Emory Univ.
12:45-13:00		ThB06.1
Clustering of Individuals Given SNPs Similarity Based in Normalized Mutual Information: F7 SNPs in the GAIT Sample , pp. 123-126.		
Perera, Alexandre		Tech. Univ. of Catalonia
Buil Demur, Alfonso		Hospital de la Santa Creu i Sant Pau
Di Bernardo, Maria Chiara		Tech. Univ. of Catalonia
Sabater-Lleal, María		Hospital de la Santa Creu i Sant Pau
Pattini, Linda		Pol. Univ. of Milan
Souto Andrés, Juan Carlos		Hospital de la Santa Creu i Sant Pau
Fontcuberta Boj, Jordi		Hospital de la Santa Creu i Sant Pau
Vallverdu, Montserrat		Tech. Univ. of Catalonia
Soria, José Manuel		Santa Creu i Sant Pau Hospital
Caminal, Pere		Tech. Univ. of Catalonia (UPC)
13:00-13:15		ThB06.2
A Pluggable Framework for Parallel Pairwise Sequence Search , pp. 127-130.		
Archuleta, Jeremy		Virginia Tech.
Feng, Wu-chun		Virginia Tech.
Tilevich, Eli		Virginia Tech.
13:15-13:30		ThB06.3
Fast Drug Action Solving from Cardiac Action Potential by Model Fitting in a Sampled Parameter Space , pp. 131-134.		
Lu, Jianyin		Kyoto Univ.
Keichi, Asakura		Nippon Shinyaku Co. Ltd.
Amano, Akira		Kyoto Univ.
Matsuda, Tetsuya		Kyoto Univ.
13:30-13:45		ThB06.4
ECG Compression through Segment Matching and Progressive Error Encoding , pp. 135-138.		
Brito, Mario		CISUC, Centre for Informatics and Systems, Univ. of
Henriques, Jorge		Univ. of Coimbra
Carvalho, Paulo		Univ. of Coimbra
Ribeiro, Bernardete		Univ. of Coimbra
Antunes, Manuel		Univ. of Coimbra
13:45-14:00		ThB06.5
Detecting Over-Represented Motifs in Alternatively Spliced Exons Using Gibbs Sampling , pp. 139-142.		
Malousi, Andigoni		Aristotle Univ. of Thessaloniki
Kouidou, Sofia		Aristotle Univ. of Thessaloniki
Maglaveras, Nikolaos		Aristotle Univ. of Thessaloniki
14:00-14:15		ThB06.6
Modified Genetic Algorithm for Parameter Selection of Compartmental Models , pp. 143-146.		
Shah, Neil		Georgia Inst. of Tech.
Moffitt, Richard A.		Georgia Inst. of Tech.
Wang, May Dongmei		Georgia Tech. and Emory Univ.

ThB07		Bellecour 2
Basic Electrophysiology - Cell to Organ (Oral Session)		
Chair: Wilders, Ronald	Acad. Medical Center, Univ. of Amsterdam	
Co-Chair: MacLeod, Rob	Univ. of Utah	
12:45-13:00		ThB07.1
3D Visualization of Cardiac Anatomical MRI Data with Para-Cellular Resolution , pp. 147-151.		
Kohl, Peter		Univ. of Oxford
Goodyer, Christopher		Univ. of Leeds
Grau, Vicente		Univ. of Oxford
Mansoori, Tahir		Oxford Univ.
Schneider, Jurgen E.		Univ. of Oxford
Ken, Brodli		Univ. of Leeds
13:15-13:30		ThB07.3
25 Years of SA Nodal Cell Modeling , pp. 152-155.		
Wilders, Ronald	Acad. Medical Center, Univ. of Amsterdam	
13:30-13:45		ThB07.4
Computational Model of Rabbit SA Node Pacemaker Activity Probed with Action Potential and Calcium Transient Clamp , pp. 156-159.		
van Borren, Marcel M. G. J.	Acad. Medical Center, Univ. of Amsterdam	
Zegers, Jan G.	Acad. Medical Center, Univ. of Amsterdam	
Verkerk, Arie O.	Acad. Medical Center, Univ. of Amsterdam	
Wilders, Ronald	Acad. Medical Center, Univ. of Amsterdam	
13:45-14:00		ThB07.5
A Framework for Modeling of Mechano-Electrical Feedback Mechanisms of Cardiac Myocytes and Tissues , pp. 160-163.		
Sachse, Frank B.		Univ. of Utah
Hunter, Geoffrey A. M.		Univ. of Utah
Weiss, Daniel L.		Univ. Karlsruhe (TH)
Seemann, Gunnar		Univ. Karlsruhe (TH)
14:00-14:15		ThB07.6
Structure Related Modification of the Shock Induced Excitation in Guinea Pig Papillary Muscle , pp. 164-166.		
Windisch, Herbert		Medical Univ. Graz
Platzer, Dieter		Medical Univ. Graz
ThB08		Gratte Ciel Lounge
Neural Nano/Microsystems (Oral Session)		
Chair: Schuettler, Martin		Univ. of Freiburg
12:45-13:00		ThB08.1
Cell Recordings with a CMOS High-Density Microelectrode Array , pp. 167-170.		
Frey, Urs		ETH Zurich
Diaz Sanchez-Bustamante, Carlota		ETH Zurich
Ugniwenko, Tanja		Univ. of Kaiserslautern
Heer, Flavio		ETH Zurich
Sedivy, Jan		ETH Zurich
Hafizovic, Sadik		ETH Zurich
Roscic, Branka		ETH Zurich
Fussenegger, Martin		ETH Zurich
Blau, Axel		Univ. of Kaiserslautern
Egert, Ulrich		Albert-Ludwigs-Univ.
Hierlemann, Andreas		ETH Zurich
13:00-13:15		ThB08.2
BioMEA: A 256-Channel MEA System with Integrated Electronics , pp. 171-174.		
Charvet, Guillaume		CEA Grenoble
Billoint, Olivier		CEA-LETI
Rousseau, Lionel		Univ.
Yvert, Blaise		CNRS & Univ. Bordeaux 1&2
13:15-13:30		ThB08.3
Microprobe Array with Low Impedance Electrodes and Highly Flexible Polyimide Cables for Acute Neural Recording , pp. 175-178.		
Kisban, Sebastian Aron		Univ. of Freiburg
Herwik, Stanislav		Univ. of Freiburg
Seidl, Karsten		Univ. of Freiburg - IMTEK
Rubehn, Birthe		Univ. of Freiburg
Jezzini, Ahmad		Univ. of Parma
Umiltf, Maria Alessandra		Univ. of Parma
Fogassi, Leonardo		Univ. of Parma
Stieglitz, Thomas		Univ. of Freiburg
Paul, Oliver		Univ. of Freiburg
Ruther, Patrick		Univ. of Freiburg
13:30-13:45		ThB08.4
Mechanical Properties of Micro Probe and Tube Array for Neural Penetrating Devices , pp. 179-182.		
Takei, Kuniharu		Toyohashi Univ. of Tech.
Kawashima, Takahiro		Toyohashi Univ. of Tech.
Sawada, Kazuaki		Toyohashi Univ. of Tech.
Ishida, Makoto		Toyohashi Univ. of Tech.

13:45-14:00		ThB08.5
Measurement of Defects in Spin Coated Polyimide Films , pp. 183-185.		
Rubehn, Birthe		Univ. of Freiburg
Stieglitz, Thomas		Univ. of Freiburg
14:00-14:15		ThB08.6
Electrochemical Properties of Platinum Electrodes in Vitro: Comparison of Six Different Surface Qualities , pp. 186-189.		
Schuettler, Martin		Univ. of Freiburg
ThB09		Gratte Ciel 3
Surgical Robotics I (Oral Session)		
Co-Chair: Ortmaier, Tobias		German Aerospace Centre
12:45-13:00		ThB09.1
Parameter Identification for a Needle-Tissue Interaction Model , pp. 190-193.		
Dehghan, Ehsan		Univ. of British Columbia
Wen, Xu		Univ. of British Columbia
Zahiri-Azar, Reza		Univ. of British Columbia
Marchal, Maud		Univ. of British Columbia
Salcudean, Septimiu E.		Univ. of British Columbia
13:00-13:15		ThB09.2
Fully Automated Image-Guided Needle Insertion: Application to Small Animal Biopsies , pp. 194-197.		
Ayadi, Ahmed		EAVR/LSIIT
Bour, Gaetan		IRCAD
Aprahamian, Pierre Marc		INSERM
Bayle, Bernard		Univ. of Strasbourg, LSIIT
Graebbling, Pierre		Univ. Louis Pasteur de Strasbourg (ULP)
Gangloff, Jacques		Univ. Louis Pasteur of Strasbourg
Soler, Luc		IRCAD
Egly, Jean Marc		IGBMC
Marescaux, jacques		IRCAD
13:15-13:30		ThB09.3
Novel Haptic Tool and Input Device for Real Time Bilateral Biomanipulation Addressing Endoscopic Surgery , pp. 198-201.		
Houston, Keith		Scuola Superiore Sant'Anna
Sieber, Arne		Profactor Res. and Solution GmbH
Eder, Clemens		Neurodan A/S
Tonet, Oliver		Scuola Superiore Sant'Anna
Menciassi, Arianna		Scuola Superiore Sant'Anna
Dario, Paolo		Scuola Superiore Sant'Anna
13:30-13:45		ThB09.4
Automatically Realistic Patient-Specific Surgical Planning of Complex Congenital Heart Defects Using MRI and CFD , pp. 202-205.		
Sundareswaran, Kartik		Georgia Inst. of Tech.
de Zelicourt, Diane		Georgia Tech.
Pekkan, Kerem		Carnegie Mellon Univ.
Jayaprakash, Gopinath		Georgia Tech.
Kim, David		Georgia Tech.
Whited, Brian		Georgia Tech.
Rossignac, Jarek		Georgia Tech.
Fogel, Mark		Children's Hospital of Philadelphia, Univ. of Pennsylvania
Kanter, Kirk		Children's Healthcare of Atlanta, Emory Univ. School
Yoganathan, Ajit		Georgia Tech.
13:45-14:00		ThB09.5
Positioning Accuracy of Neurosurgeons , pp. 206-209.		
Sandoval, Roberto		Carnegie Mellon Univ.
MacLachlan, Robert A.		Carnegie Mellon Univ.
Oh, Michael		Allegheny General Hospital
Riviere, Cameron		Carnegie Mellon Univ.
14:00-14:15		ThB09.6
Surface-Data-Based Haptic Rendering for Simulation of Surgery of Closed Reduction and Internal Fixation , pp. 210-213.		
Cho, Jang Ho		Korea Advanced Inst. of Science and Tech.
Jung, Hoe Ryong		KAIST
Yu, Insik		Korea Advanced Inst. of Science and Tech.
Lee, Kyungno		KAIST
Lee, Doo Yong		KAIST
Ahn, Hyung Soo		Kyungpook National Univ.
Park, Ilhyung		Kyungpook Univ. Hospital
Yeo, Sang Hee		Kyungpook Univ. School of Medicine
Han, Seung-Ho		The Catholic Univ. of Korea Coll. of Medicine

ThB10	Rhône 1
Image Guided Therapy I (Oral Session)	
Chair: Rousseau, Jean	INSERM - Univ. de Lille 2
Co-Chair: Melodelima, David	INSERM
12:45-13:00	ThB10.1
Determination of the Lesion Size in Laser-Induced Interstitial Thermal Therapy (litt) Using a Low-Field Mri , pp. 214-217.	
Viard, Romain	CHRU Lille
Steiner, Aline	Lille Univ. Hospital
Piron, berengère	Univ. Lille2
Rochon, Philippe	Lille Univ. Hospital
Wassmer, Benjamin	Osyris SA
Mordon, Serge	Lille Univ. Hospital
13:00-13:15	ThB10.2
Enhancing the Focusing Properties of a Prototype Non-Invasive Brain Hyperthermia System: A Simulation Study , pp. 218-221.	
Karathanasis, Konstantinos	National Tech. Univ. of Athens
Karanasiou, Irene	National Tech. Univ. of Athens
Uzunoglu, Nikolaos	National Tech. Univ. of Athens
13:15-13:30	ThB10.3
Automatic Feedback Control of the Temperature for MRI-Guided Therapeutic Ultrasound , pp. 222-225.	
Salomir, Rares Vincent	Unit 556
13:30-13:45	ThB10.4
From Intensity Modulated Radiation Therapy to 4D Radiation Therapy – an Advance in Targeting Mobile Lung Tumors , pp. 226-229.	
Song, Yulin	Memorial Sloan-Kettering Cancer Center
Mueller, Boris	Memorial Sloan-Kettering Cancer Center
Burman, Chandra	Memorial Sloan-Kettering Cancer Center
Mychalczak, Borys	Memorial Sloan-Kettering Cancer Center
13:45-14:00	ThB10.5
Toric HIFU Transducer for Large Thermal Ablation , pp. 230-233.	
Melodelima, David	INSERM
N'Djin, William Apoutou	INSERM
Parmentier, Hubert	INSERM
Rivoire, Michel	Centre Leon Berard
Chapelon, Jean-Yves	INSERM U556
14:00-14:15	ThB10.6
High Power Phased Array Prototype for Clinical High Intensity Focused Ultrasound: Applications to Transcostal and Transcranial Therapy , pp. 234-237.	
Pernot, Mathieu	SuperSonic Imagine
Aubry, Jean-Francois	ESPCI, CNRS, INSERM
Tanter, Mickaël	CNRS
Marquet, Fabrice	CNRS UMR7587
Montaldo, Gabriel	CNRS
Boch, Anne-Laure	Groupe Hospitalier Pitie-Salpetriere
Kujas, Michele	Hopital de la Pitie
Seilhean, Danielle	Hopital de la Pitie
Fink, Mathias	CNRS
ThB11	Tête d'Or 1
Women in Biomedical Engineering and Health Informatics (Minisymposium)	
Chair: McGregor, Carolyn	Univ. of Ontario Inst. of Tech.
Organizer: McGregor, Carolyn	Univ. of Ontario Inst. of Tech.
12:45-13:00	ThB11.1
Women in Biomedical Engineering and Health Informatics (I) , pp. 238-238.	
McGregor, Carolyn	Univ. of Western Sydney
Frize, Monique	Carleton Univ.
ThB12	Rhône 2
Student Paper Competition I (Oral Session)	
Chair: James, Christopher	Univ. of Southampton
12:45-13:00	ThB12.1
Microprobe Array with Low Impedance Electrodes and Highly Flexible Polyimide Cables for Acute Neural Recording* .	
Kisban, Sebastian Aron	Univ. of Freiburg
Herwik, Stanislav	Univ. of Freiburg
Seidl, Karsten	Univ. of Freiburg - IMTEK
Rubehn, Birthe	Univ. of Freiburg
Jezzini, Ahmad	Univ. of Parma
Umilti, Maria Alessandra	Univ. of Parma
Fogassi, Leonardo	Univ. of Parma
Stieglitz, Thomas	Univ. of Freiburg
Paul, Oliver	Univ. of Freiburg
Ruther, Patrick	Univ. of Freiburg

13:00-13:15		ThB12.2
<i>Multivariate Parametric Model for the Identification of Diastolic Pressure and Pulse Pressure Components*</i> .		
Aletti, Federico	Pol. di Milano - Dipartimento di Bioingegneria	
Baselli, Giuseppe	Pol. di Milano	
Bassani, Tito	Pol. di Milano	
Lucini, Daniela	Univ. degli studi di Milano	
Pagani, Massimo	Univ. degli studi di Milano	
13:15-13:30		ThB12.3
<i>Narrowband vs. Broadband Phase Synchronization Analysis Applied to Independent Components of Ictal and Interictal EEG*</i> .		
Gupta, Disha	Univ. of Southampton	
James, Christopher	Univ. of Southampton	
13:30-13:45		ThB12.4
<i>Detection of Blood Vessels in Fundus Images of the Retina Using Gabor Wavelets (I)*.</i>		
Oloumi, Faraz	SCHULICH School of Engineering, Univ. of Calgary	
Rangayyan, Raj	Univ. of Calgary	
Oloumi, Foad	SCHULICH School of Engineering, Univ. of Calgary	
Eshghzadeh-Zanjani, Peyman	SCHULICH School of Engineering, Univ. of Calgary	
Ayres, Fabio	Schulich School of Engineering, Univ. of Calgary	
13:45-14:00		ThB12.5
<i>Minimum Cross-Entropy Reconstruction of PET Images with Anatomically Based Anisotropic Median-Diffusion Filtering*</i> .		
Chan, Chung	Univ. of Sydney	
Fulton, Roger	Univ. of Sydney	
Cai, Tom	Univ. of Sydney	
Feng, Dagan	The Univ. of Sydney	
Meikle, Steven	Univ. of Sydney	
14:00-14:15		ThB12.6
<i>Methodology for MR Diffusion Tensor Imaging of the Cat Spinal Cord*</i> .		
Cohen-Adad, Julien	Univ. of Montreal - INSERM	
Benali, Habib	INSERM - Univ. Pierre et Marie Curie	
Rossignol, Serge	Univ. of Montreal	

ThB13		Roseraie 1,2
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Recent Advances in Medical Infrared Imaging (Invited Session)	
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Chair: Diakides, Nicholas A.	Advanced Concepts Analysis, Inc.
Organizer: Diakides, Nicholas A.	Advanced Concepts Analysis, Inc.
12:45-13:00	ThB13.1
<i>Reaction of Normal and Burned Tissue to Cold Excitation (I)</i> , pp. 239-242.	
Nowakowski, Antoni Z.	Gdansk Univ. of Tech.
Kaczmarek, Mariusz	Gdansk Univ. of Tech.
Renkielska, Alicja	Medical Univ. of Gdansk
Grudzinski, Jacek	Medical Univ. of Gdansk
Stojek, Wojciech	Gdansk Univ.
13:00-13:15	ThB13.2
<i>Forehead Thermal Signature Extraction in Lie Detection (I)</i> , pp. 243-246.	
Zhu, Zhen	Univ. of Houston
Tsiamyrtzis, Panagiotis	Athens Univ. of Ec. and Business
Pavlidis, Ioannis	Univ. of Houston
13:15-13:30	ThB13.3
<i>Thermal Signatures of Emotional Arousal: A Functional Infrared Imaging Study (I)</i> , pp. 247-249.	
Merla, Arcangelo	ITAB - Inst. of Advanced Biomedical Tech. - Foundation
Romani, Gian Luca	Univ. of Chieti-Pescara
13:30-13:45	ThB13.4
<i>Virtual Thermistor</i> , pp. 250-253.	
Fei, Jin	Univ. of Houston
Pavlidis, Ioannis	Univ. of Houston
13:45-14:00	ThB13.5
<i>Thermal Monitoring of the Myocardium under Blood Arrest Preliminary Study (I)</i> , pp. 254-257.	
Kaczmarek, Mariusz	Gdansk Univ. of Tech.
Nowakowski, Antoni Z.	Gdansk Univ. of Tech.
Stojek, Wojciech	Gdansk Univ.
Topolewicz, Jerzy	Gdansk Univ. of Tech.
Siebert, Janusz	Medical Univ. of Gdansk
Rogowski, Jan	Medical Univ. of Gdansk
14:00-14:15	ThB13.6
<i>Representation of Thermal Infrared Imaging Data in the DICOM Using XML Configuration Files (I)</i> , pp. 258-262.	
Ruminski, Jacek	Gdansk Univ. of Tech.

ThC01		Gratte Ciel 1
Time-Frequency and Time-Scale Analysis II (Oral Session)		
Chair: Rix, Hervé, Henri		Univ. of Nice-Sophia Antipolis
14:30-14:45		ThC01.1
Heart Rate and Systolic Blood Pressure Variability before and During Obstructive Sleep Apnea Episodes , pp. 263-266.		
Glos, Martin		Charite-Univ. Berlin
Romberg, Dietrich		Univ. of Applied Sciences
Fietze, Ingo		Charite-Univ. Berlin
Penzel, Thomas		Charite Univ. Hospital
14:45-15:00		ThC01.2
Evaluation of Two Detrending Techniques for Application in Heart Rate Variability , pp. 267-270.		
Shafqat, Kamran		City Univ.
Pal, Sandip		Broomfield Hospital
Kyriacou, Panayiotis		City Univ.
15:00-15:15		ThC01.3
A Gaussian Mixture Model for Time-Frequency Analysis of Atrial Fibrillation Electrocardiograms , pp. 271-274.		
Corino, Valentina		Pol. di Milano
Mainardi, Luca		Pol. di Milano
Bollmann, Andreas		Univ. Hospital Magdeburg
Husser, Daniela		Univ. Hospital Magdeburg
Stridh, Martin		Lund Univ.
Sornmo, Leif		Lund Univ.
15:15-15:30		ThC01.4
Algorithm for Identifying Patients with Paroxysmal Atrial Fibrillation without Appearance on the ECG , pp. 275-278.		
Kikillus, Nicole		Univ. of Karlsruhe
Hammer, Gerd		Univ. of Karlsruhe
Wieland, Steven		Univ. of Karlsruhe
Bolz, Armin		Univ. of Karlsruhe
15:30-15:45		ThC01.5
Influence of the Pedalling Frequency on the Heart Rate Variability , pp. 279-282.		
Meste, Olivier		UNSA-CNRS
Blain, Gregory		Uniuersity of Nice Sophia Antipolis
BERMON, Stephane		Inst. IM2S
15:45-16:00		ThC01.6
A Simple and Efficient Algorithm with a Coarse to Fine Approach for Arterial Beat Pulse Detection , pp. 283-286.		
Le Page, Ronan		Ec. Nationale Supérieure des Sciences Appliquées et de Tech.
Goujon, Jean-Marc		Ec. Nationale Supérieure des Sciences Appliquées et de Tech.
Guyader, Patrick		Ec. Nationale Supérieure des Sciences Appliquées et de Tech.
Billon, Michel		Ec. Nationale Supérieure des Sciences Appliquées et de Tech.

ThC02		Gratte Ciel 2
Signal Processing and Physiological System Modeling II (Oral Session)		
Chair: Baselli, Giuseppe		Pol. di Milano
Co-Chair: Mukkamala, Ramakrishna		Michigan State Univ.
14:30-14:45		ThC02.1
Multivariate Parametric Model for the Identification of Diastolic Pressure and Pulse Pressure Components , pp. 287-290.		
Aletti, Federico		Pol. di Milano - Dipartimento di Bioingegneria
Baselli, Giuseppe		Pol. di Milano
Bassani, Tito		Pol. di Milano
Lucini, Daniela		Univ. degli studi di Milano
Pagani, Massimo		Univ. degli studi di Milano
14:45-15:00		ThC02.2
Comparison of BRS Estimates During Mild Dynamical Exercise and Recovery , pp. 291-294.		
Vallais, Frédéric		Pol. di Milano
Baselli, Giuseppe		Pol. di Milano
Lucini, Daniela		Univ. degli studi di Milano
Pagani, Massimo		Univ. degli studi di Milano
Porta, Alberto		Univ. degli Studi di Milano
15:00-15:15		ThC02.3
Estimation of Long-Term Correlations from Fetal Heart Rate Variability Signal for the Identification of Pathological Fetuses , pp. 295-298.		
Ferrario, Manuela		Pol. di Milano
Signorini, Maria G.		Pol. di Milano
Magenes, Giovanni		Univ. of Pavia
15:15-15:30		ThC02.4
Changes in Heart Rate Variability in Patients under Local Anesthesia , pp. 299-302.		
Shafqat, Kamran		City Univ.
Pal, Sandip		Broomfield Hospital
Kumari, Santhi		Broomfield Hospital
Kyriacou, Panayiotis		City Univ.

15:30-15:45		ThC02.5
Evaluation of Adaptation to Visually Induced Motion Sickness by Using Physiological Index Associated with Baroreflex Function , pp. 303-306.		
Sugita, Norihiro		Tohoku Univ.
Yoshizawa, Makoto		Tohoku Univ.
Abe, Makoto		Graduate School of Engineering, Tohoku Univ.
Tanaka, Akira		Fukushima Univ.
Yambe, Tomoyuki		Tohoku Univ.
15:45-16:00		ThC02.6
Analysis of Respiratory Flow Signals in Chronic Heart Failure Patients with Periodic Breathing , pp. 307-310.		
Garde, Ainara		Tech. Univ. of Catalonia (UPC)
Giraldo, Beatriz		Tech. Univ. of Catalonia (UPC)
Jané, Raimon		Univ. Pol. de Catalunya
Diaz, Ivan		Hospital de la Santa Creu i Sant Pau
Herrera, Sergio		Hospital de la Santa Creu i Sant Pau
Benito, Salvador		Hospital de la Santa Creu i Sant Pau
Domingo, Maite		Hospital de la Santa Creu i Sant Pau
Bayes-Genis, Antoni		Hospital de la Santa Creu i Sant Pau
ThC03		Bellecour 1
Diffusion-Weighted and Diffusion-Tensor Imaging (Oral Session)		
Chair: Georgiadis, John		Univ. of Illinois at Urbana-Champaign
Co-Chair: Wu, Ed X.		The Univ. of Hong Kong
14:30-14:45		ThC03.1
High-Resolution Diffusion MRI , pp. 311-314.		
Haldar, Justin		Univ. of Illinois at Urbana-Champaign
Liang, Zhi-Pei		Univ. of Illinois, Urbana-Champaign
14:45-15:00		ThC03.2
Fiber Tracking: A Recursive Stack Algorithmic Approach , pp. 315-318.		
Goksel Duru, Dilek		Bogazici Univ.
Ozkan, Mehmed		Bogazici Univ.
15:00-15:15		ThC03.3
Modified Fast Marching Tractography Algorithm and Its Ability to Detect Fiber Crossing , pp. 319-322.		
Dargi, Fahimeh		Medical Science, Tehran Univ.
Oghabian, Mohammad Ali		Medical Sciences, Tehran Univ.
Ahmadian, Alireza		Tehran Univ. of Medical Sciences
Soltanian Zadeh, Hamid		Univ. of Tehran
Zarei, Mojtaba		Univ. of Oxford
Boroomand, Ameneh		Medical Sciences/Univ. of Tehran
15:15-15:30		ThC03.4
Methodology for MR Diffusion Tensor Imaging of the Cat Spinal Cord , pp. 323-326.		
Cohen-Adad, Julien		Univ. of Montreal - INSERM
Benali, Habib		INSERM - Univ. Pierre et Marie Curie
Rosignol, Serge		Univ. of Montreal
15:30-15:45		ThC03.5
In Vivo Study of Cross-Sectional Skeletal Muscle Fiber Asymmetry with Diffusion-Weighted MRI , pp. 327-330.		
Karampinos, Dimitrios		Univ. of Illinois at Urbana-Champaign
King, Kevin		GE Healthcare
Sutton, Brad		Univ. of Illinois at Urbana-Champaign
Georgiadis, John		Univ. of Illinois at Urbana-Champaign
ThC04		Bellecour 3
Cardiovascular Ultrasound Imaging (Oral Session)		
Co-Chair: Shung, K. Kirk		Univ. of Southern California
14:30-14:45		ThC04.1
Classification of Contrast Ultrasound Images Using Autoregressive Model Coupled to Gaussian Mixture Model , pp. 331-334.		
Ghazal, Bilal		Claude Bernard Univ. & Balamand Univ.
Khachab, Maha		Balamand Univ.
Friboulet, Denis		INSA Univ.
Mokbel, Chafic		Balamand Univ.
Cachard, Christian		Univ. Lyon 1
14:45-15:00		ThC04.2
Accurate and Automatic Carotid Plaque Characterization in Contrast Enhanced 2-D Ultrasound Images , pp. 335-338.		
Molinari, Filippo		Pol. di Torino
LIBONI, WILLIAM		GRADENIGO HOSPITAL
Pavanelli, Enrica		Presidio Sanitario Gradenigo
Giustetto, Pierangela		Presidio Sanitario Gradenigo
Badalamenti, Sergio		GRADENIGO HOSPITAL
Suri, Jasjit S		Eigen LLC
15:00-15:15		ThC04.3
Validation of a New 3D-US Imaging Robotic System to Detect and Quantify Lower Limb Arterial Stenoses , pp. 339-342.		
Janvier, Marie-Ange		Lab. of Biorheology and Medical Ultrasonics
Destrempe, François		Lab. of Biorheology and Medical Ultrasonics, Univ. of
Soulez, Gilles		Univ. de Montreal
Cloutier, Guy		Lab. of Biorheology and Medical Ultrasonics

15:15-15:30		ThC04.4
Cardiac Phase Extraction in IVUS Sequences Using 1-D Gabor Filters , pp. 343-346.		
Barajas Zamora, Joel	Autonomous Univ. of Barcelona	
Caballero Espinosa, Karla Lizbeth	Autonomous Univ. of Barcelona	
Radeva, Petia	Autonomous Univ. of Barcelona	
15:30-15:45		ThC04.5
An Original Methodology for Quantitative Assessment of Perfusion in Small Animal Studies Using Contrast-Enhanced Ultrasound , pp. 347-350.		
Mulé, Sebastien	INSERM	
De Cesare, Alain	INSERM	
FROUIN, Frederique	INSERM	
Lucidarme, Olivier	CHU Pitié-Salpêtrière	
Herment, Alain	INSERM	
15:45-16:00		ThC04.6
Development of Recognition Software of Heart to Find the Standard Cross Section on Echocardiography , pp. 351-354.		
Masuda, Kohji	Tokyo Univ. A&T	
Matsuura, Hiroataka	Tokyo Univ. A&T	
Imai, Takao	Tokyo Univ. A&T	
Inoue, Hiroto	Tokyo Univ. A&T	
ThC05		Tête d'Or Lounge
Sensor Based Systems for Monitoring I (Oral Session)		
Chair: Zhang, Yuan-Ting	The Chinese Univ. of Hong Kong	
14:30-14:45		ThC05.1
A Finite Element Analysis of Local Oscillometric Blood Pressure Measurements , pp. 355-358.		
Shaltis, Phillip	MIT	
Reisner, Andrew	Massachusetts General Hospital	
Asada, Harry	MIT	
14:45-15:00		ThC05.2
Measurement of Biomedical Signals from Helmet Based System , pp. 359-362.		
Kim, Yun Seong	Seoul National Univ.	
Choi, Jong Min	Seoul National Univ.	
Kim, Jung Soo	Seoul National Univ.	
Lee, Haet Bit	Seoul National Univ.	
Baek, Hyun Jae	Seoul National Univ.	
Ryu, Myung Suk	ABRC	
Son, Ryang Hee	Yun Sei Univ.	
Park, Kwang S.	Seoul National Univ.	
15:00-15:15		ThC05.3
Development of HIHM (Home Integrated Health Monitor)for Ubiquitous Home Healthcare , pp. 363-365.		
Kim, Jung Soo	Seoul National Univ.	
Beom Oh, Kim	Seoul National Univ.	
Park, Kwang S.	Seoul National Univ.	
15:15-15:30		ThC05.4
Cardiopulmonary Signal Sensing from Subject Wearing Body Armor , pp. 366-369.		
Park, Byung-Kwon	Univ. of Hawaii at Manoa	
Lubecke, Victor	Univ. of Hawaii Manoa	
Boric-Lubecke, Olga	Univ. of Hawaii Manoa	
Host-Madsen, Anders	Univ. of Hawaii	
15:30-15:45		ThC05.5
Adaptive Hydrostatic Blood Pressure Calibration: Development of a Wearable, Autonomous Pulse Wave Velocity Blood Pressure Monitor , pp. 370-373.		
McCombie, Devin	Massachusetts Inst. of Tech.	
Shaltis, Phillip	MIT	
Reisner, Andrew	Massachusetts General Hospital	
Asada, Harry	MIT	
15:45-16:00		ThC05.6
Non-Contact Measurement Method of Respiratory Movement under Pedal Stroke Motion , pp. 374-377.		
Aoki, Hirooki	Tokyo Univ. of Science	
ICHIMURA, Shiro	Tokyo Univ. of Science	
KIYOOKA, Satoru	Tokyo Univ. of Science	
Koshiji, Kohji	Tokyo Univ. of Science	
16:00-16:15		ThC05.7
Wireless Inertial Sensors for Monitoring Animal Behavior , pp. 378-381.		
Venkatraman, Subramaniam	Univ. of California, Berkeley	
Long, John D.	Univ. of California, Berkeley	
Pister, Kristofer S. J.	Univ. of California, Berkeley	
Carmena, Jose M.	Univ. of California, Berkeley	

ThC06	Tețe d'Or 2
Ontologies and Vocabularies for Bioinformatics (Oral Session)	
Chair: Nielsen, Poul	Univ. of Auckland
14:30-14:45	ThC06.1
A Generic Representation Format of Physiological Experimental Protocols for Computer Simulation Using Ontology , pp. 382-385.	
Shimayoshi, Takao	ASTEM Res. Inst. of Kyoto
Amano, Akira	Kyoto Univ.
Matsuda, Tetsuya	Kyoto Univ.
14:45-15:00	ThC06.2
Ontology of the Musculo-Skeletal System of the Lower Limbs , pp. 386-389.	
DAO, Tien-Tuan	Univ. de Tech. de Compięgne
HO BA THO, Marie-Christine	Univ. de Tech. de Compięgne
MARIN, Frędęric	Univ. de Tech. de Compięgne
15:00-15:15	ThC06.3
Normalization of Gene/Protein Names in Biological Literatures Using Vector-Space Model , pp. 390-393.	
Lim, Joon-Ho	Electronics and Telecommunications Res. Inst.
Jang, Hyunchul	Electronics and Telecommunications Res. Inst.
Lim, Jaesoo	Electronics and Telecommunications Res. Inst.
Park, Soo-Jun	Electr & Telecomm Res. Inst.
15:15-15:30	ThC06.4
A Web-Enabled Database of Human Gene Expression Controlled Annotations for Gene List Functional Evaluation , pp. 394-397.	
Ceresa, Mario	Pol. di Milano
Masseroli, Marco	Pol. di Milano
Campi, Alessandro	Pol. di Milano
15:30-15:45	ThC06.5
A Semantic Inheritance/Inverse-Inheritance Mechanism for Systematic Bio-Ontology Construction , pp. 398-401.	
Kim, Ki-Heon	Chonbuk National Univ.
Yang, Jaedong	Chonbuk National Univ.
Choi, Jaehun	Electronics and Telecommunications Res. Inst.
Yang, Kyung-ah	Chonbuk National Univ.
Ha, Young-Guk	Electronics and Telecommunications Res. Inst.
15:45-16:00	ThC06.6
Field Markup Language: Biological Field Representation in XML , pp. 402-405.	
Chang, David	Univ. of New South Wales
Dokos, Socrates	Univ. of New South Wales
Lovell, Nigel H	Univ. of New South Wales
ThC07	Bellecour 2
Cardiac Arrhythmias (Oral Session)	
Chair: MacLeod, Rob	Univ. of Utah
Co-Chair: Wilders, Ronald	Acad. Medical Center, Univ. of Amsterdam
14:30-14:45	ThC07.1
Arrhythmogenesis Research: A Perspective from Computational Electrophysiology Viewpoint , pp. 406-409.	
Trayanova, Natalia	Johns Hopkins Univ.
Plank, Gernot	Medical Univ. of Graz
15:00-15:15	ThC07.3
Susceptibility to Ventricular Arrhythmias in Aged Hearts , pp. 410-414.	
Rossi, Stefano	Univ. degli Studi
Baruffi, Silvana	Univ. degli Studi
Bertuzzi, Andrea	Univ. degli Studi
Mastorci, Francesca	Univ. degli Studi
Sgoifo, Andrea	Univ. degli Studi
Musso, Ezio	Univ. degli Studi
Corradi, Domenico	Univ. degli Studi
Maestri, Roberta	Univ. degli Studi
FENICI, Riccardo	Catholic Univ. of Sacred Haert
BRISINDA, Donatella	Catholic Univ. of Sacred Haert
Macchi, Emilio	Univ. degli Studi
15:15-15:30	ThC07.4
Oblique Propagation of Activation Allows the Detection of Uncoupling Microstructures from Cardiac Near Field Behavior , pp. 415-418.	
Hofer, Ernst	Medical Univ. Graz
Wiener, Thomas	Medical Univ. of Graz
Prassl, Anton J.	Medical Univ. of Graz
Thurner, Thomas	Graz Univ. of Tech.
Plank, Gernot	Medical Univ. of Graz
15:30-15:45	ThC07.5
Behaviour of the Purkinje System During Defibrillation-Strength Shocks , pp. 419-422.	
Boyle, Patrick Michael	Univ. of Calgary
Deo, Makarand	Univ. of Calgary
Vigmond, Edward	Univ. of Calgary
15:45-16:00	ThC07.6
Bayesian Analysis of Fiber Impedance Measurements , pp. 423-429.	
Barr, Roger	Duke Univ.
Nolte, Loren	Duke Univ.
Pollard, Andrew E	Univ. of Alabama at Birmingham

ThC08		Gratte Ciel Lounge
Neural Recording Systems and Instrumentation I (Oral Session)		
Chair: Butera, Robert		Georgia Inst. of Tech.
14:30-14:45		ThC08.1
<i>The Effect of Residual Electrode Resistance and Sampling Delay on Transient Instability in the Dynamic Clamp System</i> , pp. 430-433.		
Preyer, Amanda		Georgia Inst. of Tech.
Butera, Robert		Georgia Inst. of Tech.
14:45-15:00		ThC08.2
<i>On the Noise Performance of Pt-Electrodes</i> , pp. 434-436.		
Liu, Xiao		Univ. Coll. London
Demosthenous, Andreas		Univ. Coll. London
Donaldson, Nicholas de Neufville		Univ. Coll. London
15:00-15:15		ThC08.3
<i>A Single-Chip, 100-Channel, Neural-Signal Acquisition, Processing, and Telemetry Device</i> , pp. 437-440.		
Farshchi, Shahin		Univ. of California, Los Angeles
Dejan, Markovic		UCLA
Pamarti, Sudhakar		UCLA
Razavi, Behzad		UCLA
Judy, Jack		UCLA
15:15-15:30		ThC08.4
<i>A Compact Multichannel System for Acquisition and Processing of Neural Signals</i> , pp. 441-444.		
Bonfanti, Andrea		Pol. di Milano - IU.NET
Zambra, Guido		Pol. di Milano
Borghi, Tommaso		Pol. di Milano - IU.NET
Gusmeroli, Riccardo		Pol. di Milano - IU.NET
S. Spinelli, Alessandro		Pol. di Milano - IU.NET
Baranauskas, Gytis		Pol. di Milano
15:30-15:45		ThC08.5
<i>A Brain Implantable Microsystem with Hybrid RF/IR Telemetry for Advanced Neuroengineering Applications</i> , pp. 445-448.		
Song, Yoon-Kyu		Brown Univ.
Patterson, William		Brown Univ.
Bull, Christopher		Brown Univ.
Borton, David		Brown Univ.
Li, Yanqiu		Brown Univ.
Nurmikko, Arto		Brown Univ.
Simeral, John		Brown Univ.
Donoghue, John		Brown Univ.
15:45-16:00		ThC08.6
<i>Non Linear Methods Estimating Neural Network Behavior on Micro-Electrode Array Technology</i> , pp. 449-452.		
Maffezzoli, Andrea		Pol. di Milano
Signorini, Maria G.		Pol. di Milano
Gullo, Francesca		Univ. degli Studi di Milano-Bicocca
Wanke, Enzo		Univ. degli Studi di Milano-Bicocca

ThC09		Gratte Ciel 3
Computer-Assisted Surgery (Oral Session)		
Chair: Riviere, Cameron		Carnegie Mellon Univ.
Co-Chair: Linte, Cristian A.		Robarts Res. Inst. - Univ. of Western Ontario
14:30-14:45		ThC09.1
<i>Paradigms and Experimental Set-Up for the Determination of the Acceptable Delay in Telesurgery</i> , pp. 453-456.		
PEREZ, Manuela		IADI, UHP-Inserm ERI 13 and Digestive Department of CGU
QUIAIOS, Frederic		Ensem Nancy
Andrivon, Pierre		Ensem Nancy
HUSSON, Damien		IADI, UHP-Inserm ERI 13
DUFAUT, Michel		Ensem Nancy
FELBLINGER, Jacques		IADI, UHP-Inserm ERI 13
HUBERT, Jacques		IADI, UHP-Inserm ERI 13 and Urology Department
14:45-15:00		ThC09.2
<i>Enhancing Perception in Minimally Invasive Robotic Surgery through Self-Calibration of Surgical Instruments</i> , pp. 457-460.		
Navarro, Agustin		Tech. Univ. of Catalonia (UPC)
Hernansanz, Albert		Tech. Univ. of Catalonia
Villarraga Hurtado, Edgar Alberto		Univ. Pol. de Cataluña
giralt, xavier		Tech. Univ. of Catalonia
Aranda, Joan		Tech. Univ. of Catalonia
15:00-15:15		ThC09.3
<i>'Smart' Needle for Percutaneous Surgery: Influential Factor Investigation</i> , pp. 461-464.		
Yan, Kaiguo		Thomas Jefferson Univ.
Podder, Tarun		Thomas Jefferson Univ.
Ng, Wan-Sing		Nanyang Tech. Univ.
Yu, Yan		Univ. of Rochester Medical Center
15:15-15:30		ThC09.4
<i>MRI-Compatible Micromanipulator-Design and Implementation and MRI-Compatibility Tests</i> , pp. 465-468.		
koseki, yoshihiko		AIST
Tanikawa, Tamio		Natl Inst. of Adv Industrial Science
Chinzei, Kiyoyuki		National Inst. of Advanced Industrial Science and Tech.

15:30-15:45		ThC09.5
<i>Developing an Intraoperative Methodology Using the Finite Element Method and the Extended Kalman Filter to Identify the Material Parameters of an Organ Model</i> , pp. 469-474.		
Hoshi, Takeharu		Waseda Univ.
Kobayashi, Yo		Waseda Univ.
Kawamura, Kazuya		Waseda Univ.
Fujie, Masakatsu G.		Waseda Univ.
15:45-16:00		ThC09.6
<i>On Enhancing Planning and Navigation of Beating-Heart Mitral Valve Surgery Using Pre-Operative Cardiac Models</i> , pp. 475-478.		
Linte, Cristian A.	Robarts Res. Inst. - Univ. of Western Ontario	
Wierzbicki, Marcin	Robarts Res. Inst.	
Moore, John	Robarts Res. Inst.	
Guiraudon, Gerard	Univ. of Western Ontario	
Jones, Douglas	Univ. of Western Ontario	
Peters, Terry	Robarts Res. Inst.	
16:00-16:15		ThC09.7
<i>Computation and Validation of Intra-Operative Camera Uncertainty</i> , pp. 479-482.		
Simpson, Amber Lea		Queen's Univ.
Ma, Burton	Kingston General Hospital	
Chen, Elvis	Queen's Univ.	
Ellis, Randy	Harvard Medical School	
Stewart, James	Queen's Univ.	
ThC10		Rhône 1
Therapeutic Devices I (Oral Session)		
14:30-14:45		ThC10.1
<i>Wearable Accelerometer System for Measuring the Temporal Parameters of Gait</i> , pp. 483-486.		
Lee, Jung-Ah		Yonsei Univ.
Cho, Sang-Hyun		Yonsei Univ.
Lee, Jeong-Whan		Konkuk Univ.
Lee, Kang-Hwi		Konkuk Univ.
Yang, Heui-Kyung		Chungju Univ.
14:45-15:00		ThC10.2
<i>An Improved Quasi-Static Finite-Difference Scheme for Induced Field Evaluation in MRI Based on the Biconjugate Gradient Method</i> , pp. 487-490.		
Wang, Hua		Univ. of Queensland
Liu, Feng		The Univ. of Queensland
Trakic, Adnan		The Univ. of Queensland
Xia, Ling		Zhejiang Univ.
Crozier, Stuart		The Univ. of Queensland
15:00-15:15		ThC10.3
<i>Effects of Different Insertion Methods on Reducing Needle Deflection</i> , pp. 491-494.		
Abolhassani, Niki		Univ. of Western Ontario
Patel, Rajni	London Health Sciences Centre	
Ayazi, Farzam	Lawson Health Res. Inst.	
15:15-15:30		ThC10.4
<i>Robust Closed-Loop Control of the Inspired Fraction of Oxygen for the Online Assessment of Recruitment Maneuvers</i> , pp. 495-498.		
Luepschen, Henning	Helmholtz-Inst. RWTH Aachen Univ.	
Zhu, Ling	RWTH Aachen Univ.	
Leonhardt, Steffen	RWTH Aachen Univ.	
15:30-15:45		ThC10.5
<i>Design of a Magnetic Localisation System for In-Vivo Endovascular Interventions</i> , pp. 499-503.		
Placidi, Giuseppe		Univ. of L'Aquila - ITALY
Franchi, Danilo		Univ. of L'Aquila
Gallo, Pasquale		Univ. of L'Aquila - ITALY
Sotgiu, Antonello		Univ. of L'Aquila - ITALY
15:45-16:00		ThC10.6
<i>A Fast Parallel Imaging Rotary Phased Array Head Coil with Improved Sensitivity Profile Deep in the Center of the Human Brain</i> , pp. 504-507.		
Weber, Ewald		The Univ. of Queensland
Li, Bing Keong		The Univ. of Queensland
Liu, Feng		The Univ. of Queensland
Crozier, Stuart		The Univ. of Queensland
16:00-16:15		ThC10.7
<i>Description, Specifications, and ASIC Configurations of MEMOPATCH, a Transdermal Pulse Generator Medical Device to Promote Patient Adherence to Medication Regimens</i> , pp. 508-511.		
De Geest, Wim		TheraSolve
De Geest, Jan		TheraSolve
De Geest, Sabina		Univ. of Basel
Abraham, Ivo		Matrix45

ThC11		Tețe d'Or 1
Ambient Intelligent Microsystems: Contribution of the HEALTHY AIMS Project (Minisymposium)		
Chair: Hodgins, Diana		European Tech. for Business (ETB) Ltd
Organizer: Hodgins, Diana		European Tech. for Business (ETB) Ltd
14:30-14:45		ThC11.1
Mediplus Ltd - Development of Novel Sphincter Sensors for Use in Gastroenterology and Urology Diagnostic Applications (I) , pp. 512-512.		
Urie, James		Mediplus
14:45-15:00		ThC11.2
STIMuGRIP®; a New Hand Control Implant (I) , pp. 513-513.		
Spensley, John		Finetech Medical Ltd
15:00-15:15		ThC11.3
Telemetric Implantable Pressure Sensor for Short and Long-Term Monitoring of Intracranial Pressure (I) , pp. 514-514.		
Frischholz, Manfred		Campus Micro Tech. GmbH
15:15-15:30		ThC11.4
Technology Developments for Next Generation Cochlear Implants (I) , pp. 515-518.		
Corless, Anthony Robert		Univ. of Newcastle
Volckaerts, Bart		Cochlear
Mercanzini, Andre		EPFL
Silmon, Angela		Newcastle Univ.
Bertsch, Arnaud		EPFL
Van Himbeeck, Carl M N A		Cochlear
Wasikiewicz, Jaroslaw		Queen Mary Univ. of London
Vanden Bulcke, Mathieu		IMEC
Vadgama, Pankaj		Queen Mary Univ. of London
Renaud, Philippe		EPFL
15:30-15:45		ThC11.5
Software Tools for Accelerometer-Based Systems (I) , pp. 519-519.		
Kenney, Laurence		Univ. of Salford
Thies, Sibylle		Univ. of Salford
Tresadern, Phil		Univ. of Salford
Howard, David		Univ. of Salford
Goulermas, John Yannis		Univ. of Liverpool
Preece, Stephen		Univ. of Salford
ThC12		Rhône 2
Student Paper Competition II (Oral Session)		
Chair: Azpiroz-leeahan, Joaquin		Univ. Autonoma Metropolitana
14:30-14:45		ThC12.1
Magnetoencephalogram Blind Source Separation and Component Selection Procedure to Improve the Diagnosis of Alzheimer's Disease Patients* .		
Escudero, Javier		Univ. of Valladolid
Hornero, Roberto		Univ. of Valladolid
Abásolo, Daniel		Univ. of Valladolid
Fernandez, Alberto		Univ. Complutense de Madrid
Poza, Jesús		Univ. de Valladolid
14:45-15:00		ThC12.2
A Dual Band Wireless Power and FSK Data Telemetry for Biomedical Implants* .		
Jung, Louis Hyunsuk		Univ. of New South Wales
Byrnes-Preston, Phil J.		The Univ. of New South Wales
Hessler, Roland		Univ. of New South Wales
Lehmann, Torsten		Univ. of New South Wales
Suaning, Gregg		The Univ. of Newcastle
Lovell, Nigel H		Univ. of New South Wales
15:00-15:15		ThC12.3
Powered Ankle-Foot Prosthesis for the Improvement of Amputee Ambulation* .		
Au, Samuel		MIT
Herr, Hugh		MIT
Weber, Jeff		MIT Biomechanics Lab.
Martinez-Villalpando, Ernesto Carlos		Massachusetts Inst. of Tech.
15:15-15:30		ThC12.4
A Planar 3DOF Robotic Exoskeleton for Rehabilitation and Assessment* .		
Ball, Stephen Joseph		Queen's Univ.
Brown, Ian Edward		Queen's Univ.
Scott, Stephen H.		Queen's Univ.
15:30-15:45		ThC12.5
High-Resolution Diffusion MRI* .		
Haldar, Justin		Univ. of Illinois at Urbana-Champaign
Liang, Zhi-Pei		Univ. of Illinois, Urbana-Champaign
15:45-16:00		ThC12.6
An Efficient Algorithm for Current Source Localization with Tetrodes* .		
Lee, Chang Won		Univ. of California, Irvine
Dang, Hieu		Univ. of California, Irvine
Nenadic, Zoran		UC Irvine

ThC13		Roseiraie 1,2
Emerging Technologies Including Emerging Imaging Technologies (Invited Session)		
Chair: Li, Xingde		Univ. of Washington
Organizer: Li, Xingde		Univ. of Washington
14:30-14:45		ThC13.1
Optical Imaging in Biological Tissue: Taking Advantage of the Light Coherence Properties (I) , pp. 520-520.		
BOCCARA, ALBERT CLAUDE		ESPCI CNRS
14:45-15:00		ThC13.2
Low-Coherence Enhanced Backscattering and Its Applications (I) , pp. 521-523.		
Backman, Vadim		Northwestern Univ.
15:00-15:15		ThC13.3
Multifunctional Quantum Dots for Cellular and Molecular Imaging (I) , pp. 524-525.		
Gao, Xiaohu		Univ. of Washington
15:15-15:30		ThC13.4
From Bench-Top Small Animal Diffuse Optical Tomography towards Clinical Imaging (I) , pp. 526-529.		
da silva, anabela		CEA-LETI, MINATEC
dinten, jean-marc		CEA-LETI, MINATEC
coll, jean-luc		INSERM U578
rizo, philippe		CEA-LETI, MINATEC
15:30-15:45		ThC13.5
Optical Coherence Tomography – High Resolution Imaging of Structure and Function (I) , pp. 530-532.		
Leitgeb, Rainer A.		Ec. Pol. Federale de Lausanne
ThP2A1		Forum 5&6
Signal Processing and Physiological System Modeling IX (Poster Session)		
16:30-17:30		ThP2A1.1
Shoulder Motion Analysis Using Simultaneous Skin Shape Registration , pp. 533-536.		
Schwartz, Cédric		ENST Bretagne
Lempereur, Mathieu		INSERM U650
Burdin, Valérie		Ec. Nationale Supérieure des Télécommunications
Jacq, Jean-José		CHU Morvan
Rémy-Néris, Olivier		CHU Morvan
16:30-17:30		ThP2A1.2
Nonlinear Modeling of Cerebral State Index in Dogs , pp. 537-540.		
Brás, Susana		Faculdade de Ciências da Univ. do Porto
Bressan, Nadja		Faculdade de Ciências da Univ. do Porto
Ribeiro, Lénio		Hospital Veterinário do Porto
Ferreira, David A		Univ. de Trás-os-Montes e Alto Douro
Antunes, Luis		Univ. de Trás-os-Montes e Alto Douro
Nunes, Catarina S		Faculdade de Ciências da Univ. do Porto
16:30-17:30		ThP2A1.3
An Algorithm for QRS Onset and Offset Detection in Single Lead Electrocardiogram Records , pp. 541-544.		
ILLANES MANRIQUEZ, Alfredo		INRIA
ZHANG, Qinghua		INRIA
16:30-17:30		ThP2A1.4
Providing Statistical Measures of Reliability for Body Core Temperature Predictions , pp. 545-548.		
Gribok, Andrei		U.S. Army Medical Res. and Materiel Command
Buller, Mark		U.S. Army Res. Inst. of Environmental Medicine
Hoyt, Reed		US Army Res. Inst. of Environmental Medicine
Reifman, Jaques		U.S. Army Medical Res. and Materiel Command
16:30-17:30		ThP2A1.5
Theoretical Comparison between the Model-Based and Amplitude-Based Compliance Estimation Techniques , pp. 549-552.		
Talts, Jaak		Univ. of Tartu
Raamat, Rein		Univ. of Tartu
Jagomagi, Kersti		Univ. of Tartu
Kivastik, Jana		Univ. of Tartu
16:30-17:30		ThP2A1.6
Automatic Detection of Burst Suppression , pp. 553-556.		
Wang, Yunhua		Stellate System Inc.
Agarwal, Rajeev		Concordia Univ.
16:30-17:30		ThP2A1.7
An Approach to the Assessment of Diabetic Neuropathy Based on Dynamic Pupillometry , pp. 557-560.		
Ferrari, Giselle		Federal Univ. of Tech.
marques, jefferson		Univ. of sheffield
Gandhi, Rajiv		Univ. of Sheffield
emery, celia		Univ. of Sheffield
tesfaye, solomon		Univ. of Sheffield
heller, simon		Univ. of Sheffield
Schneider, Fabio Kurt		Federal Tech. Univ. of Parana
Gamba, Humberto		Federal Univ. of Tech.
16:30-17:30		ThP2A1.8
Signal Conditioning with Almost No Multiplications Via Filter Sharpening , pp. 561-565.		
Holland, Alex		Welch Allyn, Oregon Health Sciences Univ.

16:30-17:30		ThP2A1.9
Abdominal Signals: Denoising by Application of the Event Synchronous Cancellor , pp. 566-569.		
Taralunga, Dragos-Daniel		Pol. Univ. of Bucharest
Wolf, Werner		Univ. AF Munich
Strungaru, Rodica		Pol. Univ. of Bucharest
Ungureanu, Mihaela		Pol. Univ. of Bucharest
16:30-17:30		ThP2A1.10
In Vivo Determination of the Frequency Response of the Tooth Root Canal Impedance versus Distance from the Apical Foramen , pp. 570-573.		
rambo, marcos vinicio haas	Federal Univ. of Tech. - Parana (UTFPR)	
Gamba, Humberto	Federal Univ. of Tech.	
Ratzke, Alexandre	Federal Univ. of Tech.	
Schneider, Fabio Kurt	Federal Tech. Univ. of Parana	
Maia, Joaquim Miguel	Federal Univ. of Tech.	
Ramos, Carlos Alberto Spiroelli	State Univ. of Londrina	
16:30-17:30		ThP2A1.11
Wireless Biomedical Signal Monitoring Device on Wheelchair Using Noncontact Electro-Mechanical Film Sensor , pp. 574-577.		
Kim, Jong Myoung	Chungbuk National Univ.	
Hong, Joo Hyun	Chungbuk National Univ.	
Cho, Myeong-Chan	Chungbuk National Univ.	
Cha, Eun Jong	Chungbuk National Univ.	
Lee, Tae Soo	Chungbuk National Univ.	
16:30-17:30		ThP2A1.12
Heart Rate and Vasomotor Control During Exercise , pp. 578-581.		
Vallais, Frédéric	Pol. di Milano	
Baselli, Giuseppe	Pol. di Milano	
Lucini, Daniela	Univ. degli studi di Milano	
Pagani, Massimo	Univ. degli studi di Milano	
16:30-17:30		ThP2A1.13
Berkeley-Madonna Implementation of Ikeda's Model , pp. 582-585.		
Fontecave Jallon, Julie	Univ. Joseph Fourier	
Baconnier, Pierre	Univ. Joseph Fourier	
16:30-17:30		ThP2A1.14
Application of the Cell Averaging Constant False Alarm Rate Technique to Saccade Detection in Electro-Oculography , pp. 586-589.		
Niemenlehto, P-H	Univ. of Tampere	
Juhola, Martti	Univ. of Tampere	
16:30-17:30		ThP2A1.15
Reducing the Effects of Electrocardiographic Artifacts on Electro-Oculography in Automatic Sleep Analysis , pp. 590-593.		
Virkkala, Jussi	Finnish Inst. of Occupational Health	
Hasan, Joel	Pirkanmaa Hospital District	
Värri, Alpo	Tampere Univ. of Tech.	
Huupponen, Eero	Pirkanmaa Hospital District	
Himanen, Sari-Leena	irkanmaa Hospital District	
Müller, Kiti	Finnish Inst. of Occupational Health, Helsinki	
16:30-17:30		ThP2A1.16
Analysis of Neonatal EEG Signals Using Stockwell Transform , pp. 594-597.		
POH, KOK-KIONG	Nanyang Tech. Univ.	
Marziliano, Pina	Nanyang Tech. Univ.	
16:30-17:30		ThP2A1.17
Combining WMN and FOCUSS Recursive Approach to Estimating the Current Density Distribution in the Brain , pp. 598-601.		
ZOUCH, Wassim	LAMIH UNR CNRS 8530	
TALEB-AHMED, abdelmalik	Univ. de Valenciennes et du Hainaut Cambresis	
BEN HAMIDA, Ahmed	TIEM	
16:30-17:30		ThP2A1.18
Separation of Spatially Localized Cortical Activities in the EEG: Model-Based Analysis and Optimization , pp. 602-607.		
Sazonov, Andrei Vladimirovich	Eindhoven Univ. of Tech.	
Bergmans, Johannes Wilhelmus Maria	Eindhoven Univ. of Tech.	
Cluitmans, Pierre J.M.	Eindhoven Univ. of Tech.	
Griep, Paul	Epilepsy Centre Kempenhaeghe	
Arends, Johan B.A.M.	Epilepsy Center Kempenhaeghe	
Boon, Paul	Univ. Hospital Ghent, Lab. for Clinical and Experimen	
16:30-17:30		ThP2A1.19
Arterial Pulse System: Modern Methods for Traditional Indian Medicine , pp. 608-611.		
Joshi, Aniruddha	IIT Bombay	
Chandran, Sharat	IIT Bombay	
jayaraman, Valadi	National Chemical Lab.	
Kulkarni, Bhaskar	National Chemical Lab.	
16:30-17:30		ThP2A1.20
Comparative Study of Non-Invasive Blood Pressure Measurement Methods in Elderly People , pp. 612-615.		
Fabian, Vratislav	CTU in Prague	
Janouch, Martin	CTU in Prague	
Novakova, Lenka	CTU in Prague	
Stepankova, Olga	CTU in Prague	

16:30-17:30		ThP2A1.21
<i>A New Modeling of the Overlapping T Wave for the Efficient Estimation of the P-R Intervals During Exercise and Recovery</i> , pp. 616-619.		
Cabasson, Aline		Univ. of Nice Sophia Antipolis
Meste, Olivier		UNSA-CNRS
Blain, Gregory		Uniuersity of Nice Sophia Antipolis
Bermon, Stephane		Inst. IM2S
16:30-17:30		ThP2A1.22
<i>Evaluation of Performance of Several Established Pitch Detection Algorithms in Pathological Voices</i> , pp. 620-623.		
Jang, Seung Jin		Yonsei Univ.
Choi, Seong Hee		Univ. of Wisconsin-Madison
Kim, HyoMin		Yonsei Univ.
Choi, HongShik		Yongdong Severance Hospital
Yoon, Young-ro		Yonsei Univ.
16:30-17:30		ThP2A1.23
<i>Design of Luenberger Observer for Glucose-Insulin Control Via Mathematica</i> , pp. 624-627.		
Kovacs, Levente		Budapest Univ. of Tech. & Ec.
Palancz, Bela		Budapest Univ. of Tech. and Ec.
Benyo, Zoltan		Budapest Univ. of Tech. & Ec.
16:30-17:30		ThP2A1.24
<i>Tracer Kinetics of Forearm Endothelial Function: Comparison of an Empirical Method and a Quantitative Modeling Technique</i> , pp. 628-631.		
Zhao, Xueli		Montreal Heart Inst. & Concordia Univ.
Arsenault, Andre		Montreal Heart Inst.
Lavoie, Kim		Univ. of Quebec at Montreal (UQAM); Montreal Heart Inst.
meloche, bernard		Montreal Heart Inst.
Bacon, Simon L		Concordia Univ.
16:30-17:30		ThP2A1.25
<i>Analysis of Physical Activities in Wu-Shu Training</i> , pp. 632-635.		
Lee, Sang-Bock		NamBu Univ.
Hong, Joo Hyun		Chungbuk National Univ.
Lee, Tae Soo		Chungbuk National Univ.
16:30-17:30		ThP2A1.26
<i>Morphological Classification of ST Segment Using Reference STs Set</i> , pp. 636-639.		
Jeong, Guyoung		Chonbuk National Univ.
Keeho, Yu		Chonbuk National Univ.
16:30-17:30		ThP2A1.27
<i>Action Potential Alternans in LQT3 Syndrome: A Simulation Study</i> , pp. 640-643.		
Alonso Atienza, Felipe		Univ. Rey Juan Carlos
Requena Carrion, Jesus		Univ. Rey Juan Carlos, Fuenlabrada, Madrid
Rojo Alvarez, Jose Luis		Univ. Rey Juan Carlos
Berenfeld, Omer		SUNY Upstate Medical Univ.
Jalife, Jose		Upstate Medical Univ. of New York
16:30-17:30		ThP2A1.28
<i>Measuring Task-Related Changes in Heart Rate Variability</i> , pp. 644-647.		
Moses, Ziev		Tulane Univ.
Luecken, Linda		Arizona State Univ.
Eason, James		Washington and Lee Univ.
16:30-17:30		ThP2A1.29
<i>Real-Time Continuous Estimation of Respiratory Frequency During Sleep Based on Heart Rate Time Series</i> , pp. 648-651.		
Yoshida, Yutaka		Aichi Inst. of Tech.
Yokoyama, Kiyoko		Nagoya City Univ.
Ishii, Naohiro		Aichi Inst. of Tech.
16:30-17:30		ThP2A1.30
<i>Low Variance Adaptive Filter for Cancelling Motion Artifact in Wearable Photoplethysmogram Sensor Signals</i> , pp. 652-655.		
Wood, Levi Benjamin		Massachusetts Inst. of Tech.
Asada, Harry		MIT
16:30-17:30		ThP2A1.31
<i>Heart Beat Detections in the EKG Recorded in Fmri and Its Analysis for the Affection in Noise and Heart Beat Rate Changes</i> , pp. 656-658.		
Oh, Sung Suk		Korea Advanced Inst. of Science and Tech.
Chung, Jun-Young		Gachon Univ. of Medicine and Science
Yoon, Hyo Woon		Gachon Univ. of Medicine and Science
Park, HyunWook		Korea Advanced Inst. of Science and Tech.
16:30-17:30		ThP2A1.32
<i>The Concurrent Validity of the Body Center of Mass in Accelerometric Measurement</i> , pp. 659-661.		
Lee, Hyo Ki		Yonsei Univ.
Cho, Sung Pil		Yonsei Univ.
You, Joshua H.		Yonsei Univ.
Lee, Kyoung Joung		Yonsei Univ.

16:30-17:30		ThP2A1.33
Semi-Parametric Estimation in Magnetic Resonance Spectroscopy: Automation of the Disentanglement Procedure , pp. 662-665.		
RABESON, Herald	Univ. de Lyon, Univ. Lyon 1, CNRS UMR 5220, ESCPE	
ratiney, Helene	Univ. Claude Bernard LYON1, CPE	
van Ormondt, Dirk	Delft Univ. of Tech.	
Graveron-Demilly, Danielle	Univ. de Lyon, Univ. Claude Bernard LYON1, CPE	
16:30-17:30		ThP2A1.34
The Linearity-Improvement Sigma-Delta Modulator for Single-Ended Biomedical Sensors , pp. 666-669.		
Wang, Wei-Song	National Cheng Kung Univ. Department of Electrical Engineeri	
Hsu, Chen-Ming	National Cheng Kung Univ. Department of Electrical Engineeri	
Luo, Ching-Hsing	National Cheng Kung Univ.	
16:30-17:30		ThP2A1.35
Optimal Selection of Interesting Intracerebral Epileptic Signals by Means of a Multi-Agents System , pp. 670-673.		
Ndiaye, mamadou	Univ. rennes 1, iut saint malo	
MONTOIS, JEAN JACQUES	Univ. rennes 1, IUT de Saint Malo	
kinie, abel	Univ. rennes 1, iut de saint malo	
Jacquelet, Yann	Univ. de Rennes 1, IUT de Saint Malo	
16:30-17:30		ThP2A1.36
The Effect of Pathologic Cardiac Events on the Spectral Content of ECG , pp. 674-677.		
DARWICH, Ayham	Univ. of Tech. of Compiegne	
Fokapu, Odette	UTC	
16:30-17:30		ThP2A1.37
Classification of Imagined Beats for Use in a Brain Computer Interface , pp. 678-681.		
de Kruif, Bas	Radboud Univ. Nijmegen	
16:30-17:30		ThP2A1.38
Wavelet-Independent Component Analysis to Remove Electrocardiography Contamination in Surface Electromyography , pp. 682-685.		
Taelman, Joachim	Katholieke Univ. Leuven	
Van Huffel, Sabine	Katholieke Univ. Leuven	
Spaepen, Arthur	Katholieke Univ. Leuven	
16:30-17:30		ThP2A1.39
Automated Detection of Paroxysmal Atrial Fibrillation from Inter-Heartbeat Intervals , pp. 686-689.		
Shouldice, Redmond	BiancaMed	
de Chazal, Philip	BiancaMed Ltd	
Heneghan, Conor	Univ. Coll. Dublin	
16:30-17:30		ThP2A1.40
T-Wave Alternans Analysis Improvement by Means of Curve Alignment Prior to Distance Calculation , pp. 690-693.		
Cuesta-Frau, David	Pol. Univ. of Valencia	
16:30-17:30		ThP2A1.41
Band-Specific Temporal Periodicity Enhancement for Cantonese Tone Perception with Noise-Excited Vocoder , pp. 694-697.		
Yuan, Meng	The Chinese Univ. of Hong Kong	
Lee, Tan	The Chinese Univ. of Hong Kong	
Yuen, Kevin C. P.	The Chinese Univ. of Hong Kong	
Soli, Sigfrid D.	House Ear Inst.	
Tong, Michael C. F.	The Chinese Univ. of Hong Kong	
van Hasselt, Charles A.	The Chinese Univ. of Hong Kong	
16:30-17:30		ThP2A1.42
F-Wave Decomposition for Time of Arrival Profile Estimation , pp. 698-700.		
Han, Zhixiu	Neurometrix Inc	
Kong, Xuan	Neurometrix Inc	
16:30-17:30		ThP2A1.43
Identifying Local Ultrametricity of EEG Time Series for Feature Extraction in a Brain-Computer Interface , pp. 701-704.		
Coyle, Damien	Univ. of Ulster	
McGinnity, T. Martin	Univ. of Ulster	
Prasad, Girijesh	Univ. of Ulster	
16:30-17:30		ThP2A1.44
Preliminary Study of Motion Artifact Rejection for NIBP Measurement in an Ambulance , pp. 705-708.		
Koo, Yoonseo	Seoul National Univ.	
Kang, Jaemin	Seoul National Univ.	
Shin, Il Hyung	Seoul National Univ.	
Jung, Min Yang	Seoul National Univ.	
Suh, Gil Joon	Seoul National Univ. Hospital	
Kim, Hee Chan	Seoul National Univ.	
16:30-17:30		ThP2A1.45
Sleep-Stage and Event Dependency of Brain Asynchthrough Surface EEG , pp. 709-712.		
Abeyratne, Udantha R	Univ. of Queensland	
Swarnkar, Vinayak	Univ. of Queensland	
Rathnayake, Suren Indrajith	Univ. of Queensland, Australia	
16:30-17:30		ThP2A1.46
A Novel Scheme for Joint Multi-Channel ECG-Ultrasound Image Compression , pp. 713-716.		
ZEYBEK, Emre Halil	LISSI EA 3956 - Univ. Paris XII	
NAIT-ALI, Amine	Univ. Paris 12	
Christian, OLIVIER	Univ. de Poitiers	
Azza, Ouled Zaid	ISI	

16:30-17:30 ThP2A1.47
The Effect of Frequency Band on Quantitative EEG Measures in Neonates with Hypoxic-Ischaemic Encephalopathy, pp. 717-721.
 Doyle, Orla Margaret Univ. Coll. Cork
 Greene, Barry R. Univ. Coll. Cork
 Murray, Deirdre Univ. Coll. Cork
 Marnane, Liam Univ. Coll. Cork
 Lightbody, Gordon Univ. Coll. Cork
 Boylan, Geraldine Univ. Coll. Cork

16:30-17:30 ThP2A1.48
A Preliminary Study on Driver's Stress Index Using a New Method Based on Differential Skin Temperature Measurement, pp. 722-725.

Yamakoshi, Takehiro Kanazawa Univ.
 Yamakoshi, Ken-ichi Kanazawa Univ.
 Tanaka, Shinobu Kanazawa Univ.
 Nogawa, Masamichi Kanazawa Univ.
 Sawada, Yukihiro Sapporo Medical Univ.
 Rolfe, Peter Oxford BioHorizons Ltd
 Shibata, Masahiro Univ. of Tokyo
 Hirose, Yukio Kanazawa Univ.

ThP2B1 Forum 5&6
Biomedical Image Reconstruction (CT) (Poster Session)

16:30-17:30 ThP2B1.1
Algebraic and Analytic Reconstruction Methods for Dynamic Tomography, pp. 726-730.

Desbat, Laurent Grenoble Univ. (UJF)
 Rit, Simon Univ. Lumière Lyon 2
 Clackdoyle, Rolf Univ. Jean Monnet
 Mennessier, Catherine CPE-Lyon
 Promayon, Emmanuel Univ. Joseph Fourier
 Ntalampeki, Sofia TIMC-IMAG, IN3S, MEDICAL FACULTY, GRENOBLE Univ.

16:30-17:30 ThP2B1.2
Simulation Checks in Ultrasonic Computed Tomography, pp. 731-734.

Zacal, Jiri Brno Univ. of Tech.
 Hemzal, Dusan Masaryk Univ. Brno
 Jan, Jiri Brno Univ. of Tech.
 Dedek, Libor Brno Univ. of Tech.
 Jirik, Radovan Brno Univ. of Tech.
 ruiter, nicole Forschungszentrum Karlsruhe

16:30-17:30 ThP2B1.3
3D Motion Compensated Tomographic Reconstruction of Coronary Stents from X-Ray Rotational Sequence: An Experimental Study, pp. 735-738.

perrenot, beatrice CREATIS-LRMN; General Electric Healthcare
 Vaillant, Régis General Electric Healthcare
 Gavit, Laurence General Electric Healthcare
 Motoya, Hayase Skirball Center for Cardiovascular Res. Cardiovascular Res.
 Douek, Philippe CREATIS-LRMN, Hospices Civils de Lyon
 prost, remy CREATIS-LRMN
 finet, gerard hospices civils lyon
 PEYRIN, Françoise UMR CNRS 5220; Inserm U630; INSA-Lyon; ESRF

16:30-17:30 ThP2B1.4
Penalized-Likelihood Region-Of-Interest CT Reconstruction by Local Object Supersampling, pp. 739-742.

Hamelin, Benoit École Pol. de Montréal
 Goussard, Yves École Pol. de Montréal
 Dussault, Jean-Pierre Univ. de Sherbrooke

16:30-17:30 ThP2B1.5
The Benefit of a Kernel Estimate Based Forward Projection for Iterative Tomographic Reconstruction Techniques, pp. 743-746.

Chakchouk, Moez Univ. de René Descartes
 Sevestre-Ghalila, Sylvie U2S, ENIT / MAP5 Univ. Paris Descartes
 Graffigne, Christine René Descartes Paris 5 Univ.

ThP2B2 Forum 5&6
Biomedical Image Reconstruction (other Modalities) (Poster Session)

16:30-17:30 ThP2B2.1
In Vivo Three-Dimensional Reconstruction of the Cornea from Confocal Microscopy Images, pp. 747-750.

Scarpa, Fabio Univ. of Padova
 Fiorin, Diego Univ. of Padova
 Ruggeri, Alfredo Univ. of Padova

16:30-17:30 ThP2B2.2
Magnetic Resonance Image Reconstruction Using Equation System Solving-Based Singularity Function Analysis, pp. 751-754.

Luo, Jianhua Shanghai Jiaotong Univ.
 ZHU, Yuemin -

16:30-17:30		ThP2B2.3
<i>A Comparison of Image Deconvolution Approaches Applied to the Detection of Endocytic Vesicles in Fluorescence Images of Neural Proteins</i> , pp. 755-758.		
Vega-Alvarado, Leticia		Univ. Nacional Autónoma de México
Elezgaray, Izaskun		Inst. François Magendie
Hémar, Agnes		Inst. François Magendie
Menard, Michel		Univ. de La Rochelle
Ranger, Christophe		Explora Nova
Corkidi, Gabriel		Univ. Nacional Autónoma de México
16:30-17:30		ThP2B2.4
<i>On High Sensitivity Emission Imaging by Scattered Gamma Radiation</i> , pp. 759-762.		
DRIOL, Clémence		Univ. of Cergy-Pontoise
NGUYEN, Mai K.		Univ. of CERGY-PONTOISE
TRUONG, Tuong T.		Univ. of Cergy-Pontoise
16:30-17:30		ThP2B2.5
<i>Carotid Plaque 3D Compound Imaging and Echo-Morphology Analysis: A Bayesian Approach</i> , pp. 763-766.		
Seabra, José Carlos		Inst. Superior Técnico, Lisboa
Sanches, João		Inst. Superior Técnico / Inst. de SistemaseRobótica
Pedro, Luis Mendes		Faculdade de Medicina de Lisboa
Fernandes e Fernandes, José		Faculdade de Medicina de Lisboa
16:30-17:30		ThP2B2.6
<i>Model Reduction by Multiresolution Method Applied to Fluorescence Diffuse Optical Tomography</i> , pp. 767-770.		
Frassati, Anne		CEA-LETI, MINATEC
da silva, anabela		CEA-LETI, MINATEC
dinten, jean-marc		CEA-LETI, MINATEC
Georges, Didier		INPG
16:30-17:30		ThP2B2.7
<i>Interest of the Steady State Free Precession (SSFP) Sequence for 3D Modeling of the Whole Fetus</i> , pp. 771-774.		
Anquez, Jeremie		ENST
Angelini, Elsa		Ec. Nat. Superieure des Telecom
Bloch, Isabelle		GET- Télécom Paris (ENST) - CNRS UMR 5141 LTCI
Merzoug, Valérie		St Vincent de Paul Hospital
Bellaiche-Millischer, Anne-Elodie		St Vincent de Paul Hospital
Adamsbaum, Catherine		St Vincent de Paul Hospital

ThP2B3 Forum 5&6

Segmentation Village I: Variational Methods and Others (Poster Session)

16:30-17:30		ThP2B3.1
<i>Segmentation of Squamous Epithelium from Ultra-Large Cervical Histological Virtual Slides</i> , pp. 775-778.		
Wang, Yin Hai		Queen's Univ. Belfast
Crookes, Danny		Queen's Univ. Belfast
16:30-17:30		ThP2B3.2
<i>Resolving the Initial Contour Problem of GVF Snake in the Sequential Images</i> , pp. 779-782.		
Seol, Yunhwan		Korea Univ.
Yu, Jaeseung		Korea Univ.
Kang, Teahoon		Korea Univ.
Choi, Kwanghee		Korea Univ.
Kim, Hochul		Korea Univ.
Kim, MinGi		Korea Univ.
16:30-17:30		ThP2B3.3
<i>An Evaluation of a Combined Spline Based and Rate of Energy Dissipation Based Segmentation of Medical Blood Flow Images</i> , pp. 783-786.		
Pashae, Ali		Amirkabir Univ. of Tech. (Tehran Pol.
Moosavi, M. Hossein		Amirkabir Univ. of Tech. (Tehran Pol.
Pashae, Mohammad		Ardebil Univ. of Medical Sciences
Fatourae, Nasser		Amirkabir Univ. of Tech.
16:30-17:30		ThP2B3.4
<i>Analysis of Left Ventricular Surface Deformation During Isovolumic Contraction</i> , pp. 787-790.		
Yeo, Si Yong		Inst. of High Performance Computing
Zhong, Liang		National Heart Centre
Su, Yi		Inst. of High Performance Computing
tan, ru san		National heart center
Ghista, Dhanjoo		Nanyang Tech. Univ.
16:30-17:30		ThP2B3.5
<i>Fast-Marching Contours for the Segmentation of Vessel Lumen in CTA Cross-Sections</i> , pp. 791-794.		
Baltaxe, Michael		Univ. de los Andes
Flórez Valencia, Leonardo		Univ. Javeriana
Magnin, Isabelle		INSA
ORKISZ, Maciej		Univ. Lyon 1, INSA-Lyon, CNRS UMR5220, INSERM U630
Hernández Hoyos, Marcela		Univ. de los Andes

16:30-17:30		ThP2B3.6
Airway Segmentation and Measurement in CT Images , pp. 795-799.		
Cheng, Irene		Univ. of Pennsylvania
Nilufar, Sharmin		Univ. of Alberta
Flores-Mir, Carlos		Univ. of Alberta
Basu, Anup		Univ. of Alberta
16:30-17:30		ThP2B3.7
Medical Image Segmentation Using Feature-Based GVF Snake , pp. 800-803.		
Ng, Hsiao Piau	National Univ. of Singapore / Agency for Science, Tech.	
Foong, Kelvin Weng Chiong	National Univ. of Singapore	
Ong, Sim Heng	National Univ. of Singapore	
Goh, Poh Sun	National Univ. of Singapore	
Nowinski, L. Wieslaw	Agency for Science, Tech. & Res.	
16:30-17:30		ThP2B3.8
Modified Data Fidelity Speed in Anisotropic Diffusion , pp. 804-807.		
JERBI, Taha		La Manouba Univ.
Burdin, Valérie	Ec. Nationale Supérieure des Télécommunications	
GHORBEL, Faouzi		Univ. de la Manouba
Jacq, Jean-José		CHU Morvan
16:30-17:30		ThP2B3.9
An Improved Level Set Method for Automatically Volume Measure: Application in Tumor Tracking from MRI Images , pp. 808-811.		
RUAN, Su	IUT de Troyes, Univ. de Reims	
Li, Xiaobing		Dalian Univ. of Tech.
LEBONVALLET, Stéphane		IUT TROYES
Qiu, TianShuang		Dalian Univ. of Tech.
16:30-17:30		ThP2B3.10
Automated Cell Apoptosis Characterization Using Active Contours , pp. 812-815.		
Doukas, Charalampos		Univ. of the Aegean
Maglogiannis, Ilias		Univ. of the Aegean
16:30-17:30		ThP2B3.11
Three Different Strategies for Real-Time Prostate Capsule Volume Computation from 3-D End-Fire Transrectal Ultrasound , pp. 816-818.		
Barqawi, Albaha		Univ. of Colorado Hospital
Li, Lu		Univ. of Connecticut
Crawford, David		Univ. of Colorado
Fenster, Aaron		Robarts Res. Inst.
Werahera, Priya	Univ. of Colorado at Denver and Health Sciences Center	
Kumar, Dinesh		Eigen LLC
Miller, Steve		Eigen LLC
Suri, Jasjit S		Eigen LLC
16:30-17:30		ThP2B3.12
Level Set-Based Core Segmentation of Mammographic Masses Facilitating Three Stage (Core, Periphery, Spiculation) Analysis , pp. 819-824.		
Ball, John	Naval Surface Warfare Center Dahlgren	
Bruce, Lori		Mississippi State Univ.
16:30-17:30		ThP2B3.13
A Contour Extraction Method Using Active Contour Model on Ultrasonic Images , pp. 825-828.		
Oshiro, Masakuni		Waseda Univ.
Nishimura, Toshihiro		Waseda Univ.
16:30-17:30		ThP2B3.14
Computational Aspects of the EEG Forward Problem Solution for Real Head Model Using Finite Element Method , pp. 829-832.		
Rytsar, Romana		Univ. of Geneva
Pun, Thierry		Univ. of Geneva

ThP2B4 Forum 5&6

Image Registration II (Poster Session)

Chair: Boire, Jean-Yves		INSERM
Co-Chair: SARRY, Laurent	Faculté de Médecine, Univ. d'Auvergne	
16:30-17:30		ThP2B4.1
Image-Fusion Operators for 3D Anatomical and Functional Analysis of the Brain , pp. 833-835.		
Marquez, Jorge Alberto		UNAM-CCADET
Padilla Castañeda, Miguel Angel	Univ. Nacional Autonoma de Mexico	
Gastélum Strozzi, Alfonso		CCADET-UNAM
16:30-17:30		ThP2B4.2
A Coarse-To-Fine Surface Registration Algorithm for Frameless Brain Surgery , pp. 836-839.		
Lee, Jiann-Der		Chang Gung Univ.
Lan, Tzu-Yen		Chang Gung Univ.
Huang, Chung-Hsien		Chang Gung Univ.
16:30-17:30		ThP2B4.3
Artificial Immune Network for Automatic Point Correspondence in Medical Images , pp. 840-843.		
DELIBASIS, KONSTANTINOS	Inst. OF COMMUNICATION & COMPUTER SYSTEMS	
Asvestas, Pantelis	Inst. OF COMMUNICATION & COMPUTER SYSTEMS	
MOURAVLIANSKY, NIKOLAOS	Inst. OF COMMUNICATION & COMPUTER SYSTEMS	
Economopoulos, Theodoros	Inst. OF COMMUNICATION & COMPUTER SYSTEMS	
MATSOPOULOS, GEORGE K	Inst. OF COMMUNICATION & COMPUTER SYSTEMS	

16:30-17:30		ThP2B4.4
	Computer-Aid Evaluation System for Parkinson's Disease Using Image Registration and Labeling , pp. 844-847.	
	Lee, Jiann-Der	Chang Gung Univ.
	Chen, Cheng-Wei	Chang Gung Univ.
	Huang, Chung-Hsien	Chang Gung Univ.
16:30-17:30		ThP2B4.5
	Estimation of Intra-Operative Brain Shift Using a Tracked Laser Range Scanner , pp. 848-851.	
	Ding, Siyi	Vanderbilt Univ.
	Miga, Michael	Vanderbilt Univ.
	Reid, Thompson	Vanderbilt Univ. Medical Center
	Dumpuri, Prashanth	Vanderbilt Univ.
	Cao, Aize	Vanderbilt Univ.
	Dawant, Benoit	Vanderbilt Univ.
16:30-17:30		ThP2B4.6
	Model Based and Iconic Multimodal Registration to Merge Gated Cardiac PET, CT and MR Sequences , pp. 852-855.	
	Baty, Xavier	Univ. d'Angers
	ROULLIER, Vincent	Univ. of Angers
	Cavaro-Ménard, Christine	Univ. d'Angers
	Le Jeune, Jean-Jacques	Centre Hospitalier Univ. d'Angers
16:30-17:30		ThP2B4.7
	Non-Rigid Registration of the Liver in Consecutive CT Studies for Assessment of Tumor Response to Radiofrequency Ablation , pp. 856-859.	
	Niculescu, Gabriela	Rutgers Univ.
	Foran, David J.	UMDNJ-Robert Wood Johnson Medical School and The Cancer Inst.
	Nosher, John	Robert Wood Johnson Univ. Hospital
16:30-17:30		ThP2B4.8
	2D/3D Registration of Multiple Bones , pp. 860-863.	
	Ma, Burton	Kingston General Hospital
	Stewart, James	Queen's Univ.
	Pichora, David	Kingston General Hospital
	Ellis, Randy	Harvard Medical School
	Abolmaesumi, Purang	Queen's Univ.
16:30-17:30		ThP2B4.9
	Color Based Texture Classification of Hysteroscopy Images of the Endometrium , pp. 864-867.	
	Neofytou, Marios	Univ. of Cyprus
	Tanos, Vasilios	Temp
	Pattichis, Marios	Univ. of New Mexico,
	Pattichis, Constantinos	Univ. of Cyprus
	Kyriacou, Efthvoulos	Univ. of Cyprus
	Pavlopoulos, Sotiris	National Tech. Univ. of Athens
16:30-17:30		ThP2B4.10
	A Comparison between the Surface-Based and Mutual-Information-Based Methods for Co-Registering SPECT and MR Images , pp. 868-871.	
	Liao, Yuan-Lin	National Cheng Kung Univ.
	Sun, Yung-Nien	National Cheng Kung Univ.
	Guo, Wan-Yuo	Taipei Veterans General Hospital
	Chou, Yuan-Hwa	Taipei Veterans General Hospital
	Hsieh, Jen-Chuen	Taipei Veterans General Hospital
	Wu, Yu-Te	National Yang-Ming Univ.
16:30-17:30		ThP2B4.11
	Framework for a Low-Cost Intra-Operative Image-Guided Neuronavigator Including Brain Shift Compensation , pp. 872-875.	
	Bucki, Marek	Univ. Joseph Fourier
	Lobos, Claudio	Univ. Joseph Fourier
	Payan, Yohan	Lab. TIMC-IMAG, UMR CNRS 5525
16:30-17:30		ThP2B4.12
	Improvement in C-Arm Acquired DSA Image Quality Via Combined Effect of Inverse Consistent Motion Correction and Nonlinear Normalization , pp. 876-879.	
	Kumar, Dinesh	Eigen LLC
	wei, liyang	Eigen LLC
	Turlapati, Ram	Theda Clark Hospital
	Suri, Jasjit S	Eigen LLC
16:30-17:30		ThP2B4.13
	Virtual Slide Telepathology Systems with JPEG2000 , pp. 880-883.	
	Garcia Ortiz, Juan Pablo	Univ. of Almeria
	Gonzalez Ruiz, Vicente	Univ. of Almeria
	Garcia, Inmaculada	Univ. of Almeria
16:30-17:30		ThP2B4.14
	Regional Assessment of Left Ventricular Surface Shape from Magnetic Resonance Imaging , pp. 884-887.	
	Zhong, Liang	National Heart Centre
	Yeo, Si Yong	Inst. of High Performance Computing
	Su, Yi	Inst. of High Performance Computing
	Le, Thu Thao	National Heart Centre
	tan, ru san	National heart center
	Ghista, Dhanjoo	Nanyang Tech. Univ.

ThP2B5	Forum 5&6
Retinal Image Analysis (Poster Session)	
Chair: Ruggeri, Alfredo	Univ. of Padova
16:30-17:30	ThP2B5.1
Preliminary Study on the Association of Vessel Diameter Variation and Glaucoma (I) , pp. 888-891.	
VLACHOKOSTA, ALEXANDRA	National Tech. Univ. of Athens
Asvestas, Pantelis	Inst. OF COMMUNICATION & COMPUTER SYSTEMS
MATSOPOULOS, GEORGE K	Inst. OF COMMUNICATION & COMPUTER SYSTEMS
Uzunoglu, Nikolaos	National Tech. Univ. of Athens
ZEYEN, THIERRY	Univ. Hospital
16:30-17:30	ThP2B5.2
Improvement of a Retinal Blood Vessel Segmentation Method Using the Insight Segmentation and Registration Toolkit (ITK) (I) , pp. 892-895.	
Martinez-Perez, M. Elena	Inst. of Res. in Applied Mathematics and Systems, UNAM
Hughes, Alun D.	St. Mary's Hospital, Imperial Coll. London
Thom, Simon A. McG.	Imperial Coll. London
Parker, Kim H.	Imperial Coll. London
16:30-17:30	ThP2B5.3
3-D Retinal Surface Inference: Stereo or Monocular Fundus Camera? (I) , pp. 896-899.	
Martinello, Manuel	Univ. di Padova
Favaro, Paolo	Heriot-Watt
Muyo, Gonzalo	Heriot-Watt Univ.
Harvey, Andy	Heriot Watt Univ.
Grisan, Enrico	Univ. of Padova
Scarpa, Fabio	Univ. of Padova
Ruggeri, Alfredo	Univ. of Padova
16:30-17:30	ThP2B5.4
Segmentation of Optic Nerve Head Using Warping and RANSAC (I) , pp. 900-903.	
Kim, Sun Kwon	Graduate School, Seoul National Univ. Korea
Kong, Hyoun-Joong	Seoul National Univ.
Seo, Jong Mo	Dongguk Univ. Ilsan Hospital
Cho, Bum Joo	Seoul National Univ. School of Medicine
Park, Ki Ho	Seoul National Univ. School of Medicine
Hwang, Jeong Min	Seoul National Univ. School of Medicine
Kim, Dong Myung	Seoul National Univ. School of Medicine
Chung, Hum	Seoul National Univ. School of Medicine
Kim, Hee Chan	Seoul National Univ.
ThP2C1	Forum 5&6
Electrocardiology and Pacing (Poster Session)	
16:30-17:30	ThP2C1.1
Single Cells Isolated from Human Sinoatrial Node: Action Potentials and Numerical Reconstruction of Pacemaker Current , pp. 904-907.	
Verkerk, Arie O.	Acad. Medical Center, Univ. of Amsterdam
van Borren, Marcel M. G. J.	Acad. Medical Center, Univ. of Amsterdam
Peters, Ron J. G.	Acad. Medical Center, Univ. of Amsterdam
Broekhuis, Eli	Acad. Medical Center, Univ. of Amsterdam
Lam, Kayan	Acad. Medical Center, Univ. of Amsterdam
Coronel, Ruben	Acad. Medical Center, Univ. of Amsterdam
de Bakker, Jacques M. T.	Acad. Medical Center, Univ. of Amsterdam
Tan, Hanno L.	Acad. Medical Center, Univ. of Amsterdam
Wilders, Ronald	Acad. Medical Center, Univ. of Amsterdam
16:30-17:30	ThP2C1.2
Computational Model of Atrial Electrical Activation and Propagation , pp. 908-911.	
Dokos, Socrates	Univ. of New South Wales
Cloherly, Shaun L	Univ. of New South Wales
Lovell, Nigel H	Univ. of New South Wales
16:30-17:30	ThP2C1.3
New Physiological Model of Serum Creatine Phosphokinase Activity in Acute Myocardial Infarction -- Estimation of the Total Creatine Phosphokinase Release , pp. 912-915.	
Kitawaki, Tomoki	Okayama Univ. Graduate School
Oka, Hisao	Okayama Univ. Graduate School
Kusachi, Shozo	Okayama Univ. Graduate School
Himeno, Ryutaro	RIKEN
16:30-17:30	ThP2C1.4
Cardiac Output Measurement in Patients with an Implanted Pacemaker , pp. 916-918.	
Vondra, Vlastimil	Czech Acad. of Scientific Inst.
Halamek, Josef	Inst. of Scientific Inst. Acad. of Sciences of the Cz
Viscor, Ivo	Inst. of Scientific Inst. Czech Acad. of Sciences
Jurak, Pavel	Inst. of Scientific Inst. Acad.
Novak, Miroslav	St. Anna's Univ. Hospital

16:30-17:30		ThP2C1.5
<i>Dynamic QT/RR Coupling in Patients with Pacemakers</i> , pp. 919-922.		
Halamek, Josef	Inst. of Scientific Inst. Acad. of Sciences of the Cze	
Jurak, Pavel	Inst. of Scientific Inst. Acad.	
Villa, Marco	Univ. di Bergamo	
Novak, Miroslav	St. Anna's Univ. Hospital	
Vondra, Vlastimil	Inst. of Scientific Inst. AS CR	
Soucek, Miroslav	St Anne's Univ. Hospital, Brno,	
Frana, Petr	St Anne's Univ. Hospital, Brno,	
Somers, Virend	Mayo Clinic	
Kara, Tomas	St Anne's Univ. Hospital, Brno	
16:30-17:30		ThP2C1.6
<i>A Novel Method for Reducing Pain Sensation at Transesophageal Atrial Stimulation</i> , pp. 923-926.		
Anier, Andres	OÜ ELIKO Tehnoloogia Arenduskeskus	
Kaik, Jüri	Tallinn Univ. of Tech.	
Meigas, Kalju	Tallinn Univ. of Tech.	
16:30-17:30		ThP2C1.7
<i>Multistability As Intrinsic Property of a Single Cardiac Cell: A Simulation Study</i> , pp. 927-930.		
Surovyatkina, Elena	Space Res. Inst. of Russian Acad. of Science	
Egorchenkov, Roman	Space Res. Inst. of Russian Acad. of Science	
Ivanov, Guennady	Moscow Medical Acad.	
16:30-17:30		ThP2C1.8
<i>Contribution of the Left Anterior Myocardium to the Body Surface Potentials in Case of Apical Ectopic Beat</i> , pp. 931-934.		
Väisänen, Juho	Tampere Univ. of Tech.	
Requena Carrion, Jesus	Univ. Rey Juan Carlos, Fuenlabrada, Madrid	
Alonso Atienza, Felipe	Univ. Rey Juan Carlos	
Rojo Alvarez, Jose Luis	Univ. Rey Juan Carlos	
Malmivuo, Jaakko	Tampere Univ. of Tech.	
hyttinen, jari	Tampere Univ. of Tech.	
ThP2C2		Forum 5&6
Hemodynamics and PWV (Poster Session)		
16:30-17:30		ThP2C2.1
<i>A New Blood Pressure and Heart Rate Signal Analysis Technique to Assess Orthostatic Hypotension and Its Subtypes</i> , pp. 935-938.		
Deegan, Brian Michael Thomas	National Univ. of Ireland, Galway	
O'Connor, Margaret	Mid-Western Regional Hospital, Limerick	
Lyons, Declan	Mid-Western Regional Hospital, Limerick	
ÓLaighin, Gearóid	National Univ. of Ireland, Galway	
16:30-17:30		ThP2C2.2
<i>Blood Pressure Dynamics in Hypertensive Subjects During Tilt Table</i> , pp. 939-942.		
Jurak, Pavel	Inst. of Scientific Inst. Acad.	
Halamek, Josef	Inst. of Scientific Inst. Acad. of Sciences of the Cze	
Plachy, Martin	St Anne's Univ. Hospital, Brno,	
Frana, Petr	St Anne's Univ. Hospital, Brno,	
Leinveber, Pavel	Mayo Clinic	
Soucek, Miroslav	St Anne's Univ. Hospital, Brno,	
Kara, Tomas	St Anne's Univ. Hospital, Brno	
16:30-17:30		ThP2C2.3
<i>A Computational Investigation on the Importance of Biomechanical Factors Related to Stent-Graft Models in the Thoracic Aorta</i> , pp. 943-946.		
Lam, Shang King	Univ. of Hong Kong	
Fung, George S. K.	The Univ. of Hong Kong	
Cheng, Stephen W.K.	Univ. of Hong Kong	
Chow, K.W.	Univ. of Hong Kong	
16:30-17:30		ThP2C2.4
<i>A Parallel Image-Based Blood Flow Simulator</i> , pp. 947-950.		
Garbey, Marc	Univ. of Houston	
Hadri, Bilel	Univ. of Houston	
Karmonik, Christof	The Methodist Hospital Res. Inst.	
16:30-17:30		ThP2C2.5
<i>A Technique for the Computation of Lower Leg Muscle Volume from MRI Images in the Context of Venous Return</i> , pp. 951-954.		
ÓLaighin, Gearóid	National Univ. of Ireland, Galway	
Broderick, Barry	National Univ. of Ireland, Galway	
Clarke-Moloney, Mary	Mid-Western Regional Hospital	
Wallis, Fintan	Mid-Western Regional Hospital	
Grace, Pierce	Mid Western Regional Hospital	
16:30-17:30		ThP2C2.6
<i>Comparison of Cardiac Output Monitoring Methods for Detecting Central Hypovolemia Due to Lower Body Negative Pressure</i> , pp. 955-958.		
Reisner, Andrew	Massachusetts General Hospital	
Xu, Da	Michigan State Univ.	
Ryan, Kathy	US Army Inst. of Surgical Res.	
Convertino, Victor	U.S. Army Inst. of Surgical Res.	
Mukkamala, Ramakrishna	Michigan State Univ.	

- 16:30-17:30
Study on the Microcirculatory Blood Velocity of Acupoint Monitored by Laser Doppler Signal, pp. 959-962.
 Hsin, Hsiu
 Shih-Min, Huang
 Wei-Chen, Hsu
 Pin-Tsun, Chao
 Chia-Liang, Hsu
 Ming-Yie, Jan
 Wei-Kung, Wang
 Yuh-Ying, Wang Lin
 Yuan Ze Univ.
 Yuan Ze Univ.
 Taipei City Hospital
 Acad. Sinica
 Yuan Ze Univ.
 Acad. Sinica
 Acad. Sinica
 National Taiwan Normal Univ.
 ThP2C2.7
- 16:30-17:30
Continuous Ejection Fraction Estimation by Model-Based Analysis of an Aortic Pressure Waveform: Comparison to Echocardiography, pp. 963-966.
 Swamy, Gokul
 Olivier, Bari
 Kuiper, Jacob
 Mukkamala, Ramakrishna
 Michigan State Univ.
 Michigan State Univ.
 Michigan State Univ.
 Michigan State Univ.
 ThP2C2.8
- 16:30-17:30
Effect of Gender on Blood Flow Velocities and Blood Pressure: Role of Body Weight and Height, pp. 967-970.
 Azran, Azhim
 Akioka, Kohei
 Akutagawa, Masatake
 Hirao, Yuji
 Yoshizaki, Kazuo
 Nomura, Masaharu
 Tanaka, Hiroyuki
 Yamaguchi, Hisao
 obara, shigeru
 Kinouchi, Yohsuke
 The Univ. of Tokushima
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 The Univ. of Tokushima
 The Univ. of Tokushima
 Naruto Univ. of Education
 Tokushima Bunri Univ.
 Univ. of Tokushima
 The Univ. of Tokushima
 ThP2C2.9
- 16:30-17:30
Instantaneous versus Average Wave Speed Calculation in Large Mammals under Acute Hemorrhage, pp. 971-972.
 Quinsac, Celine
 Heil, Matthias
 Jackson, Alan
 Dark, Paul
 The Univ. of Manchester
 Univ. of Manchester
 Univ. of Manchester
 Univ. of Manchester
 ThP2C2.10
- 16:30-17:30
The Variabilities of Blood Pressure and Pulse Arrival Time in Normotensive Young Subjects under Dynamic Conditions, pp. 973-974.
 Wong, Mico Yee Man
 Zhang, Yuan-Ting
 The Chinese Univ. of Hong Kong
 The Chinese Univ. of Hong Kong
 ThP2C2.11
- 16:30-17:30
A Coronary Pulse Wave Velocity Measurement System, pp. 975-977.
 Nam, Taewoo
 Cho, Jongman
 Choi, Junggyeon
 Park, Junho
 Cho, Wookhyun
 Inje Univ.
 Inje Univ.
 Inje Univ.
 Inje Univ.
 Inje Univ. Seoul Paik hospital
 ThP2C2.12
- 16:30-17:30
Doppler Ultrasound Measurements of Venous Return in the Popliteal Vein, pp. 978-981.
 Breen, Paul
 Galvin, Olivia
 Grace, Pierce
 ÓLaighin, Gearóid
 National Univ. of Ireland Galway
 Mid Western Regional Hospital
 Mid Western Regional Hospital
 National Univ. of Ireland, Galway
 ThP2C2.13
- 16:30-17:30
Evaluation of Stationarity of Laser Doppler Signal in the Pulse-Based Synchronized-Averaging Analysis, pp. 982-984.
 Hsin, Hsiu
 Pin-Tsun, Chao
 Wen-Rei, Chiang
 Rei-Yan, Hsu
 Ming-Yie, Jan
 Tse-Lin, Hsu
 Wei-Kung, Wang
 Yuh-Ying, Wang Lin
 Yuan Ze Univ.
 Acad. Sinica
 Yuan Ze Univ.
 Yuan Ze Univ.
 Acad. Sinica
 Acad. Sinica
 Acad. Sinica
 Acad. Sinica
 National Taiwan Normal Univ.
 ThP2C2.14
- 16:30-17:30
Determination of Wave Intensity in Flexible Tubes Using Measured Diameter and Velocity, pp. 985-988.
 Feng, Jiling
 Khir, Ashraf
 Brunel Univ.
 Brunel Univ.
 ThP2C2.15

16:30-17:30		ThP2C2.16
Effects of Aging and Exercise Training on the Common Carotid Blood Velocities in Healthy Men , pp. 989-993.		
Noor Azmi, Azran Azhim		The Univ. of Tokushima
Kinouchi, Yohsuke		The Univ. of Tokushima
Akutagawa, Masatake		The Univ. of Tokushima
Hirao, Yuji		Tokushima Pref. I.T.C.
Yoshizaki, Kazuo		The Univ. of Tokushima
Nomura, Masaharu		The Univ. of Tokushima
Yamaguchi, Hisao		Tokushima Bunri Univ.
Akioka, Kohei		Univ. of Tokushima
Tanaka, Hiroyuki		Naruto Univ. of Education
obara, shigeru		Univ. of Tokushima
16:30-17:30		ThP2C2.17
Towards Automating the Pulmonary Artery Catheter: A Canine Validation Study , pp. 994-997.		
Xu, Da		Michigan State Univ.
Olivier, Bari		Michigan State Univ.
Mukkamala, Ramakrishna		Michigan State Univ.
16:30-17:30		ThP2C2.18
Analysis of Pressure Losses in the Hemodialysis Graft Vascular Circuit Using Finite Element Analysis , pp. 998-1001.		
Beasely, Madison P		Louisiana State Univ. Health Sciences Center
Conrad, Steven A		Univ. State Univ. Health Sciences Center
16:30-17:30		ThP2C2.19
A Haemodynamic Model of the Venous Network of the Lower Limbs , pp. 1002-1005.		
Fragomeni, Gionata		Magna Graecia Univ. of Catanzaro
Merola, Alessio		Univ. degli Studi Magna Graecia di Catanzaro
De Franciscis, Stefano		Magna Graecia Univ. of Catanzaro
Amato, Francesco		Univ. degli Studi Magna Graecia di Catanzaro
16:30-17:30		ThP2C2.20
Analogue Step-By-Step DC Component Eliminator for 24-Hour PPG Signal Monitoring , pp. 1006-1009.		
Pilt, Kristjan		Tech. Univ. of Tallinn
Meigas, Kalju		Tallinn Univ. of Tech.
Lass, Jaanus		Tallinn Univ. of Tech.
Rosmann, Mart-Rein		Tensiotrace Ltd.
Kaik, Jüri		Tallinn Univ. of Tech.
ThP2C3		Forum 5&6
Cardiovascular Models and Ventricular Assist Devices (Poster Session)		
16:30-17:30		ThP2C3.1
Infant Circulation Model Based on the Electrophysiological Cell Model , pp. 1010-1013.		
Nobuaki, Yutaka		Kyoto Univ.
Amano, Akira		Kyoto Univ.
Shimayoshi, Takao		ASTEM Res. Inst. of Kyoto
Lu, Jianyin		Kyoto Univ.
Shim, Eun		Kangwon National Univ.
Matsuda, Tetsuya		Kyoto Univ.
16:30-17:30		ThP2C3.2
A Mathematical Model of the Cardiovascular System under Exercise , pp. 1014-1017.		
Wang, Lu		Univ. of New South Wales
Su, Steven Weidong		Univ. of Tech. Sydney
Chan, Gregory S H		The Univ. of New South Wales
Celler, Branko George		Univ. of New South Wales
16:30-17:30		ThP2C3.3
Noninvasive Pulsatile Flow Estimation for an Implantable Rotary Blood Pump , pp. 1018-1021.		
Karantonis, Dean M		Univ. of New South Wales
Cloherty, Shaun L		Univ. of New South Wales
Mason, David G		Ventracor Ltd
Ayre, Peter Joseph		Ventracor Ltd
Lovell, Nigel H		Univ. of New South Wales
16:30-17:30		ThP2C3.4
Impact of Superoxide Dismutase on Nitric Oxide and Peroxynitrite Levels in the Microcirculation - a Computational Model , pp. 1022-1026.		
Chavez, Miriam Defibaugh		Univ. of Arkansas
Lakshmanan, Nisha		Univ. of Arkansas
Kavdia, Mahendra		Univ. of Arkansas
16:30-17:30		ThP2C3.5
Flow Simulation of a Diaphragm-Type Ventricular Assist Device with Structural Interactions , pp. 1027-1030.		
Moosavi, M. Hossein		Amirkabir Univ. of Tech. (Tehran Pol.
Fatouraei, Nasser		Amirkabir Univ. of Tech.
16:30-17:30		ThP2C3.6
The Circumferential Loading of a Direct Cardiac Compression Assist Device , pp. 1031-1034.		
Keeling, David		The Univ. of Leeds

16:30-17:30		ThP2C3.7
<i>The Re-Design at the Transformer Portion of Transcutaneous Energy Transmission System for All Implantable Devices</i> , pp. 1035-1038.		
Watada, Masaya		Musashi Inst. of Tech.
Saisho, Ryohei		Musashi Inst. of Tech.
Kim, Yong-Jae		Musashi Inst. of Tech.
Ohuchi, Katsuhiro		Tokyo Medical and Dental Univ.
Takatani, Setsuo		Tokyo Medical and Dental Univ.
Um, Yong-Su		Gyeongsang National Univ.

ThP2C4	Forum 5&6
Sleep Disorders II (Poster Session)	

16:30-17:30		ThP2C4.1
<i>Temporal Knowledge in the Intelligent Diagnosis of Sleep Apnea Syndrome: A New Approach</i> , pp. 1039-1042.		
Fernandez-Leal, Angel		A Coruña Univ.
Moret-Bonillo, Vicente		A Coruña Univ.
16:30-17:30		ThP2C4.2
<i>Monitoring of Obstructive Sleep Apnea in Heart Failure Patients</i> , pp. 1043-1046.		
Patangay, Abhilash		Univ. of Minnesota
Vemuri, Prashanthi		Mayo Clinic, Rochester
Tewfik, Ahmed		Univ. of Minnesota
16:30-17:30		ThP2C4.3
<i>ECG Biomarkers for Simultaneous Detection of Obstructive Sleep Apnea and Cheyne-Stokes Breathing</i> , pp. 1047-1050.		
Sanjee, Suhas Ramesh		Univ. of Texas at Arlington
Vijendra, Sridhar		Univ. of Texas at Arlington
Burk, John R.		Sleep Consultants Inc.
Lucas, Edgar A		Sleep Consultants Inc.
Behbehani, Khosrow		Univ. of Texas at Arlington

ThP2C5	Forum 5&6
Respiratory Systems II (Poster Session)	

16:30-17:30		ThP2C5.1
<i>Identification of the Total Peripheral Resistance Baroreflex Impulse Response from Spontaneous Hemodynamic Variability: Validation by Chronic Arterial Baroreceptor Denervation</i> , pp. 1051-1054.		
Chen, Xiaoxiao		Michigan State Univ.
Kim, Jong-Kyung		Wayne State Univ. School of Medicine
Sala-Mercado, Javier		Wayne State Univ. School of Medicine
Hammond, Robert		Wayne State Univ. School of Medicine
Swamy, Gokul		Michigan State Univ.
Scislo, Tadeusz		Wayne State Univ. School of Medicine
O'Leary, Donal		Wayne State Univ. School of Medicine
Mukkamala, Ramakrishna		Michigan State Univ.
16:30-17:30		ThP2C5.2
<i>Respiratory Inductance Plethysmography Is Suitable for Voluntary Hyperventilation Test</i> , pp. 1055-1057.		
Calabrese, Pascale		Univ. Joseph Fourier
Besleaga, Tudor		Univ. de médecine et pharmacie
Eberhard, André		Univ. Joseph Fourier
Vovc, Victor		Univ. de médecine et pharmacie
Baconnier, Pierre		Univ. Joseph Fourier
16:30-17:30		ThP2C5.3
<i>Theoretical and Experimental Studies on the Nonlinear Mechanical Property of Tracheal Cartilage</i> , pp. 1058-1061.		
Teng, Zhongzhao		Univ. of Zaragoza
Ochoa, Ignacio		Univ. of Zaragoza
Bea, Jose Antonio		Univ. of Zaragoza
Doblare, Manuel		Univ. of Zaragoza
16:30-17:30		ThP2C5.4
<i>Sensitivity of Pulmonary Crackle Parameters to Filter Cut-Off Frequency</i> , pp. 1062-1065.		
Kahya, Yasemin P.		Bogazici Univ.
Yeginer, Mete		Bogazici Univ.
16:30-17:30		ThP2C5.5
<i>High Frequency Chest Compression Effects Heart Rate Variability</i> , pp. 1066-1069.		
Lee, Jongwon		Univ. OF MINNESOTA
Lee, Yong Wan		Univ. of Minnesota
Warwick, Warren J.		Univ. of Minnesota
16:30-17:30		ThP2C5.6
<i>Absorption Characteristics Evaluation from Pulsed Photo-Thermal Radiometry in the Determination of Lung Air-Leak Integrity by Vital Staining</i> , pp. 1070-1073.		
Tokunaga, Hisako		KEIO Univ.
Gotoh, Maya		KEIO Univ. (Japan)
Oka, Yasunobu		KEIO Univ. (Japan)
Arai, Tsunenori		Keio Univ.
16:30-17:30		ThP2C5.7
<i>Stroke Volume Estimation by Thoracocardiography Is Better When Glottis Is Closed</i> , pp. 1074-1077.		
Abdulhay, Enas		Univ. Joseph Fourier
Baconnier, Pierre		Univ. Joseph Fourier

16:30-17:30 ThP2C5.8
A Study of IOS Data Using Two Mead-Related Models of Respiratory Impedance, pp. 1078-1081.
 Nguyen, Thuc-Uyen Texas Christian Univ.
 Diong, Bill Texas Christian Univ.
 Nazeran, Homayoun The Univ. of Texas at El Paso
 Goldman, Michael David Univ. of California Los Angeles

ThP2D1 Forum 5&6
Modeling of Biological Systems II (Poster Session)

16:30-17:30 ThP2D1.1
Research on 3D Modeling for Head MRI Image Based on Immune Sphere-Shaped Support Vector Machine, pp. 1082-1085.
 Guo, Lei Hebei Univ. of Tech.
 Wang, Lei Hebei Univ. of Tech.
 Wu, Youxi Hebei Univ. of Tech.
 Yan, Weili Hebei Univ. of Tech.
 Shen, Xueqin Hebei Univ. of Tech.

16:30-17:30 ThP2D1.2
Estimation of Parameters in the Linear-Fractional Models, pp. 1086-1089.
 Wu, FangXiang Univ. of Saskatchewan

16:30-17:30 ThP2D1.3
Dosage Prediction Via Estimation of Shell Thickness and Concentration of Drug Carrier with Microbubbles, pp. 1090-1093.
 Lu, Shih-Jen National Taiwan Univ.
 Chuang, chih-yang National Taiwan Univ.
 Tsao, Jenho National Taiwan Univ.

16:30-17:30 ThP2D1.4
Leading to Long-Term Nonprogressor Via Gradual Reduction of Drug Dose with Immune Dynamics Strongly Dependant on Target Cells, pp. 1094-1097.
 Chang, Hyejjeon Imperial Coll. London
 Astolfi, Alessandro Imperial Coll. London and Univ. of Rome

16:30-17:30 ThP2D1.5
A Computational Model of Rat Cerebral Blood Flow Using Non-Uniform Rational B-Splines, pp. 1098-1100.
 Pushkin, Sergey Inst. of Cytochemistry and Molecular Pharmacology
 Podoprigora, Guennady Inst. of Cytochemistry and Molecular Pharmacology
 Comas, Laurent CHU Jean Minjoz
 Boulahdour, Hatem Jean Minjoz Univ. Hospital and Univ. of Franche-Comte
 Cardot, Jean-Claude CHU Jean Minjoz
 Baud, Michel CHU Jean Minjoz
 Nartsissov, Yaroslav Inst. of Cytochemistry and Molecular Pharmacology
 Blagosklonov, Oleg CHU Jean Minjoz

16:30-17:30 ThP2D1.6
A Computational Framework for the Analysis of Biological Models, pp. 1101-1104.
 Petsios, Stefanos - Konstantinos Univ.
 Fotiadis, Dimitrios I. Univ. of Ioannina

16:30-17:30 ThP2D1.7
Investigating the Coupling between Stimulation and Neural Activity: A Dynamic Modeling Approach, pp. 1105-1108.
 Lefebvre, Veronique Univ. of Sheffield
 Zheng, Ying Univ. of Sheffield
 Devonshire, Ian Mark Univ. of Oxford
 Martin, Chris Univ. of sheffield
 Mayhew, John Univ. of Sheffield

16:30-17:30 ThP2D1.8
A Two Dimension Model of the Uterine Electrical Wave Propagation, pp. 1109-1112.
 Rihana, Sandy Univ. of Tech. of Compiegne
 Lefrançois, Emmanuel Univ. of Tech. of Compiegne
 Marque, Catherine Univ. of Tech. of compiegne

16:30-17:30 ThP2D1.9
Investigation of an Optical Fiber Cerebral Oximeter Using a Monte Carlo Model, pp. 1113-1116.
 Phillips, Justin St Bartholomew's Hospital
 Langford, Richard St Bartholomew's Hospital
 Jones, Deric City Univ.

16:30-17:30 ThP2D1.10
Modeling the Interaction of Electric Current and Tissue: Importance of Accounting for Time Varying Electric Properties, pp. 1117-1120.
 Evans, Daniel Univ. of Idaho
 Manwaring, Mark Univ. of Idaho

16:30-17:30 ThP2D1.11
Exploration of Quantitative Scoring Metrics to Compare Systems Biology Modeling Approaches, pp. 1121-1124.
 Kaddi, Chanchala Georgia Inst. of Tech.
 Oden, Erica Georgia Inst. of Tech.
 Quo, Chang Feng Georgia Inst. of Tech.
 Wang, May Dongmei Georgia Tech. and Emory Univ.

16:30-17:30 ThP2D1.12
Cellular Ion Channel-Pump System Modeling Using Switched Stochastic Differential Equations, pp. 1125-1131.
 Weaver, Jeffrey Univ. of Western Ontario

16:30-17:30		ThP2D1.13
Finite Element Bidomain Model of Epiretinal Stimulation , pp. 1132-1135.		
Joarder, Saiful Ahsan		Univ. of Newcastle, Australia
Dokos, Socrates		Univ. of New South Wales
Suaning, Gregg		The Univ. of Newcastle
Lovell, Nigel H		Univ. of New South Wales
16:30-17:30		ThP2D1.14
Neural Systems and Time Course of Proactive Interference in Working Memory , pp. 1136-1139.		
Du, Yingchun		Shantou Univ.
Zhang, John Xuexin		The Chinese Univ. of Hong Kong
Xiao, Zhuangwei		Shantou Univ.
Wu, RenHua		Shantou Univ. Medical Coll.
ThP2D2		Forum 5&6
Novel Technologies for Bioinformatics II (Poster Session)		
16:30-17:30		ThP2D2.1
The Role of Intracarotid Cold Saline Infusion on a Theoretical Brain Model Incorporating the Circle of Willis and Cerebral Venous Return , pp. 1140-1143.		
Neimark, Matthew		Columbia Univ.
Konstas, Angelos-Arsteidis		Columbia Univ.
Choi, Jae H.		Columbia Univ.
Laine, Andrew		Columbia Univ.
Pile-Spellman, John		Columbia Univ.
16:30-17:30		ThP2D2.2
Acceleration of Sensitivity Analysis by Distributed Computation , pp. 1144-1147.		
Sarai, Nobuaki		Graduate School of Medicine, Kyoto Univ.
16:30-17:30		ThP2D2.3
Genes Expression Level Quantification Using a Spot-Based Algorithmic Pipeline , pp. 1148-1151.		
Daskalakis, Antonis		Medical Image Processing and Analysis (M.I.P.A) Group,Lab.
Cavouras, Dionysios		Tech. Educational Inst. of Athens
Bougioukos, Panagiotis		Medical Image Processing and Analysis (M.I.P.A) Group,Lab.
Kostopoulos, Spiros		Medical Image Processing and Analysis (M.I.P.A)
Georgiadis, Pantelis		Univ. of Patras
Kalatzis, Ioannis		Tech. Educational Inst. of Athens
Kagadis, George		Univ. of Patras
Nikiforidis, George		Medical School, Univ. of Patras
16:30-17:30		ThP2D2.4
Numerical Modeling of Injection Flow of Drug Agents for Controlled Drug Delivery , pp. 1152-1155.		
Liu, Moubin		Nanyang Tech. Univ.
Chang, Jianzhong		North Univ. of China
Li, Huiqi		Inst. for Infocomm Res.
16:30-17:30		ThP2D2.5
A Non-Linear Model of the Neural Integrator in Oculomotor Control , pp. 1156-1159.		
Chan, Wilbur		McGill Univ.
Galiana, Henrietta L.		McGill Univ.
16:30-17:30		ThP2D2.6
Determination of the Optimal Heating Pattern Obtained with External Planar Applicators Used for 915 MHz Microwave Hyperthermia , pp. 1160-1163.		
CRESSON, PIERRE-YVES		IEMN - Univ. of Lille
DUBOIS, LUC		IEMN - Univ. of Lille
PRIBETICH, JOSEPH		IEMN - Univ. of Lille
16:30-17:30		ThP2D2.7
FDTD Computation of Temperature Elevation in Human Body for RF Far-Field Exposure , pp. 1164-1167.		
Hirata, Akimasa		Nagoya Inst. of Tech.
Asano, Takayuki		Nagoya Inst. of Tech.
Fujiwara, Osamu		Nagoya Inst. of Tech.
16:30-17:30		ThP2D2.8
A Numerical Simulation of Peristaltic Motion in the Ureter Using Fluid Structure Interactions , pp. 1168-1171.		
Vahidi, Bahman		Amirkabir Univ. of Tech. (Tehran Pol.
Fatouraei, Nasser		Amirkabir Univ. of Tech.
16:30-17:30		ThP2D2.9
A Tissue-Level Model of the Left Ventricle for the Analysis of Regional Myocardial Function , pp. 1172-1175.		
Le Rolle, Virginie		Univ. of Rennes 1
Hernández, Alfredo I		INSERM U642 LTSI.
Richard, Pierre-Yves		Supélec
Donal, Erwan		INSERM U642 LTSI.
Carrault, Guy		Univ. de Rennes 1
16:30-17:30		ThP2D2.10
Microarray Image Compression Using a Variation of Singular Value Decomposition , pp. 1176-1179.		
Peters, Thomas		Nipissing Univ.
Smolikova-Wachowiak, Renata		Nipissing Univ.
Wachowiak, Mark Paul		Nipissing Univ.

16:30-17:30		ThP2D2.11
Material Removal Mechanisms in Monopolar Electrosurgery , pp. 1180-1183.		
Ward, Arlen		Colorado State Univ.
Ladtkow, Casey		Valleylab
collins, george		coloradostate Univ.
16:30-17:30		ThP2D2.12
Variation of Radiation Effects and Signal Efficiency with Distance between Electromagnetic Source and Trunk Model , pp. 1184-1187.		
Xu, Lisheng		The Chinese Univ. of Hong Kong
Meng, Max Q.-H.		The Chinese Univ. of Hong Kong
Wei, Dacheng		The Chinese Univ. of Hong Kong
Ren, HongLiang		The Chinese Univ. of Hong Kong
16:30-17:30		ThP2D2.13
Constructing Human Brain-Function Association Models from Fmri Literature , pp. 1188-1191.		
Hsiao, Mei-Yu		National Taiwan Univ.
Chen, Der-Yow		National Taiwan Univ.
Chen, Jyh-Horng		National Taiwan Univ.
16:30-17:30		ThP2D2.14
A New Architecture for Supporting Medical Decision Making for Different Data Types Based on Fuzzy Cognitive Map Framework , pp. 1192-1195.		
Papageorgiou, Elpiniki		Univ. of Patras
Stylios, Chrysostomos		Tech. Educational Inst. of Epirus
Groumos, Peter		Univ. of Patras
16:30-17:30		ThP2D2.15
Numerical Study of the SNR and SAR of MRI Coil Arrays , pp. 1196-1199.		
Rojas, Rafael		UAM, Iztapalapa.
Rodriguez, Alfredo O		UAM, Iztapalapa
16:30-17:30		ThP2D2.16
Full Analogue Electronic Realisation of the Hodgkin-Huxley Neuronal Dynamics in Weak-Inversion CMOS , pp. 1200-1203.		
Lazaridis, Evangelos		Imperial Coll. London
Drakakis, Emmanuel M.		Imperial Coll.
Barahona, Mauricio		Imperial Coll. London

ThP2D3 Forum 5&6
Structural Bioinformatics and Computational Proteomics II (Poster Session)

16:30-17:30		ThP2D3.1
Exploring Protein Architecture Using 3D Shape-Based Signatures , pp. 1204-1208.		
Paquet, Eric		National Res. Council
Viktor, Herna Lydia		Univ. of Ottawa
16:30-17:30		ThP2D3.2
Charge Distributions That Cause Current to Enter a Pore in a Biological Membrane , pp. 1209-1212.		
Klee, Maurice		-
16:30-17:30		ThP2D3.3
Computer Simulation of I27 Translocation through ClpY Reveal the Critical Role of Protein Mechanical Strength and Local Stability , pp. 1213-1216.		
Feng, Gang		Univ. of Illinois at Chicago
Lu, Hui		Univ. of Illinois at Chicago
16:30-17:30		ThP2D3.4
A Hub-Protein Based Visualization of Large Protein-Protein Interaction Networks , pp. 1217-1220.		
Bang, SunLee		Electronics and Telecommunications Res. Inst.
Choi, Jaehun		Electronics and Telecommunications Res. Inst.
Park, Jongmin		Chonbuk National Univ.
Park, Soo-Jun		Electr & Telecomm Res. Inst.
16:30-17:30		ThP2D3.5
Quantification of Uncertainty of Peptide Retention Time Predictions from a Sequence-Based Model in LC-MS/MS Proteomics Experiments , pp. 1221-1224.		
Yanofsky, Corey		McGill Univ.
Kearney, Robert Edward		McGill Univ.
Lesimple, Souad		McGill Univ.
Bergeron, John		McGill Univ.
Boismenu, Daniel		McGill Univ.
Carrillo, Brian		McGill Univ.
Bell, Alexander		McGill Univ.
16:30-17:30		ThP2D3.6
Classification of Transmembrane Segments in Human Proteins Using Wavelet-Based Energy , pp. 1225-1228.		
Kitsas, Ilias		Aristotle Univ. of Thessaloniki
Hadjileontiadis, Leontios		Aristotle Univ. of Thessaloniki
Panas, Stavros		Aristotle Univ. of Thessaloniki

ThP2D4 Forum 5&6
Surgical Robotics II (Poster Session)

16:30-17:30		ThP2D4.1
A Surgical Robot for Cochleostomy , pp. 1229-1232.		
Ma, Xianghong		Aston Univ.
Brett, Peter		Aston Univ.

16:30-17:30		ThP2D4.2
Multi-Channel Robotic System for Prostate Brachytherapy , pp. 1233-1236.		
Podder, Tarun		Thomas Jefferson Univ.
Ng, Wan-Sing		Nanyang Tech. Univ.
Yu, Yan		Univ. of Rochester Medical Center
16:30-17:30		ThP2D4.3
Real-Time Simulation for Intra-Operative Navigation in Robotic Surgery -Using a Mass Spring System for a Basic Study of Organ Deformation , pp. 1237-1241.		
Kawamura, Kazuya		Waseda Univ.
Kobayashi, Yo		Waseda Univ.
Fujie, Masakatsu G.		Waseda Univ.
16:30-17:30		ThP2D4.4
Viscoelastic and Nonlinear Organ Model for Control of Needle Insertion Manipulator , pp. 1242-1248.		
Kobayashi, Yo		Waseda Univ.
Onishi, Akinori		Waseda Univ.
Hoshi, Takeharu		Waseda Univ.
Kawamura, Kazuya		Waseda Univ.
Fujie, Masakatsu G.		Waseda Univ.
16:30-17:30		ThP2D4.5
Hazard Analysis of EUCLIDIAN: An Image-Guided Robotic Brachytherapy System , pp. 1249-1252.		
Hu, Yida		Thomas Jefferson Univ.
Podder, Tarun		Thomas Jefferson Univ.
Buzurovic, Ivan		Thomas Jefferson Univ.
Yan, Kaiguo		Thomas Jefferson Univ.
Ng, Wan-Sing		Nanyang Tech. Univ.
Yu, Yan		Thomas Jefferson Univ. Hospital
16:30-17:30		ThP2D4.6
Improved Haptic Interface for Colonoscopy Simulation , pp. 1253-1256.		
Woo, Hyun Soo		KAIST
Kim, Woo Seok		KAIST
Ahn, Woojin		KAIST
Lee, Doo Yong		KAIST
Yi, Sun Young		Ewha Womans Univ.
16:30-17:30		ThP2D4.7
Human Factors Design for Intuitive Operation of a Low-Cost, Image Guided, Tele-Robotic Biopsy Assistant , pp. 1257-1260.		
Hanumara, Nevan		Massachusetts Inst. of Tech.
Walsh, Conor		MIT
Slocum, Alexander		MIT
Gupta, Rajiv		Massachusetts General Hospital
Shepard, Jo-Anne		Massachusetts General Hospital
ThD01		Gratte Ciel 1
Time-Frequency and Time-Scale Analysis III (Oral Session)		
Co-Chair: Jané, Raimon		Univ. Pol. de Catalunya
17:30-17:45		ThD01.1
R-Peak Detection and Signal Averaging for Simulated Stress ECG Using EMD , pp. 1261-1264.		
Nimunkar, Amit		Univ. of Wisconsin-Madison
Tompkins, Willis J.		Univ. of Wisconsin - Madison
17:45-18:00		ThD01.2
Multichannel-Based Newborn EEG Seizure Detection Using Time-Frequency Matched Filter , pp. 1265-1268.		
khlif, Mohamed Salah		Univ. of Queensland
Mesbah, Mostefa		Univ. of Queensland
Boashash, Boualem		Univ. of Queensland
Colditz, Paul		Univ. of Queensland
18:00-18:15		ThD01.3
Optimizing High-Frequency-Oscillation Using Acoustic Parameters of the Newborn Lung: A Feasibility Study , pp. 1269-1272.		
Luria, Oded		Tel-Aviv Univ.
Barnea, Ofer		Tel Aviv Univ.
Kohelet, David		Edit Wolfsom Medical Center
18:15-18:30		ThD01.4
Analysis of Echo Signal from Single Ultrasound Contrast Microbubble Using a Reversible Jump MCMC Algorithm , pp. 1273-1276.		
Yan, Yan		Univ. of Edinburgh
Hopgood, James		The Univ. of Edinburgh
Sboros, Vassilis		Univ. of Edinburgh
18:30-18:45		ThD01.5
Third Heart Sound Detection Using Wavelet Transform–Simplicity Filter , pp. 1277-1281.		
Kumar, Dinesh		Univ. of Coimbra
Carvalho, Paulo		Univ. of Coimbra
Antunes, Manuel		Univ. of Coimbra
Henriques, Jorge		Univ. of Coimbra
Sa e Melo, Antonio		Univ. Hospital
Schmidt, Ralf		Philips Res.
Habetha, Joerg		Philips Res. Lab.

ThD02	Gratte Ciel 2
Signal Processing and Physiological System Modeling III (Oral Session)	
Co-Chair: Reni, Gianluigi	IRCCS
17:30-17:45	ThD02.1
An Efficient Algorithm for Current Source Localization with Tetrodes , pp. 1282-1285.	
Lee, Chang Won	Univ. of California, Irvine
Dang, Hieu	Univ. of California, Irvine
Nenadic, Zoran	UC Irvine
17:45-18:00	ThD02.2
Improving the Dynamics of Responses to Amplitude Modulated Stimuli by Modeling Inhibitory Interneurons in Cochlear Nucleus , pp. 1286-1289.	
Dugué, Pierre	LTSI
Le Bouquin Jeannes, Regine	INSERM U642 - Univ. de Rennes 1
Faucon, Gerard	INSERM U642 - Univ. de Rennes 1
18:00-18:15	ThD02.3
Analysis of Instantaneous Amplitude and Frequency of Intracranial EEG Signal to Characterize Epileptic Seizure Stages , pp. 1290-1293.	
Diaz, Mary	Univ. Simon Bolivar
Viola, Julio Cesar	Univ. Simon Bolivar
Esteller, Rosana	NeuroPace, Inc.
18:15-18:30	ThD02.4
Delta Waves Differently Modulate High Frequency Components of EEG Oscillations in Various Unconsciousness Levels , pp. 1294-1297.	
Molae Ardekani, Behnam	Univ. of Rennes 1
Senhadji, Lotfi	Univ. of Rennes 1; INSERM
Shamsollahi, Mohammad Bagher	Sharif Univ. of Tech.
Vosoughi Vahdat, Bijan	Sharif Univ. of Tech.
Wodey, Eric	Univ. of Rennes 1
18:30-18:45	ThD02.5
Analysis of the Dynamical Behaviour of the EEG Rhythms During a Test of Sustained Attention , pp. 1298-1301.	
Molteni, Erika	IRCCS E. Medea - Associazione La Nostra Famiglia
Bianchi, Anna Maria	Pol. di Milano
Butti, Michele	Pol. Univ.
Reni, Gianluigi	IRCCS
Zucca, Claudio	IRCCS "E. Medea"
18:45-19:00	ThD02.6
Time-Domain Analysis of EEG During Guilty Knowledge Test: Investigation of Epoching Criteria , pp. 1302-1305.	
Merzagora, Anna Caterina	Drexel Univ.
Izzetoglu, Meltem	Drexel Univ.
Bunce, Scott	Drexel Univ. Coll. of Medicine
Onaral, Banu	Drexel Univ.
ThD03	Bellecour 1
MR Image Processing and Analysis I (Oral Session)	
Chair: Lin, Ching-Po	National Yang-Ming Univ.
Co-Chair: Klemer, David	Univ. of Wisconsin - Milwaukee
17:30-17:45	ThD03.1
Fractal Analysis of Tumoral Lesions in Brain , pp. 1306-1309.	
Martin-Landrove, Miguel	Univ. Central de Venezuela
Pereira, Demian	Facultad de Ingenieria, Univ. Central de Venezuela
Caldeira, Maria E.	Ministerio de Energia y Petroleo
Itriago, Salvador	Inst. de Res. Magnética
Juliac, Maria	Hospital Vargas
17:45-18:00	ThD03.2
Morphological Atlases of Knee Cartilage: Shape Indices to Analyze Cartilage Degradation in Osteoarthritic and Non-Osteoarthritic Population , pp. 1310-1313.	
Tameem, Hussain	Univ. of California Los Angeles
Selva, Luis	Univ. of California Los Angeles
Sinha, Usha	UCLA
18:00-18:15	ThD03.3
A Gabor-Based Technique for Bias Removal in MR Images , pp. 1314-1317.	
Ardizzone, Edoardo	Univ. degli studi di Palermo
Pirrone, Roberto	Univ. degli studi di Palermo
Mastrella, Mario	Univ. degli studi di Palermo
Gambino, Orazio	Univ. degli Studi di Palermo
18:15-18:30	ThD03.4
A Quasi-Analytical Method for Relaxation Rate Distribution Determination of T2-Weighted MRI in Brain , pp. 1318-1321.	
Martin-Landrove, Miguel	Univ. Central de Venezuela
Figueroa, Giovanni	Facultad de Ciencias, Univ. Central de Venezuela
Paluszny, Marco	Facultad de Ciencias, Univ. Central de Venezuela
Torres, Wuilian	Inst. de Ingeniería

18:30-18:45		ThD03.5
Invariant SPHARM Shape Descriptors for Complex Geometry in MR Region of Interest Analysis , pp. 1322-1325.		
Uthama, Ashish		Univ. of British Columbia
Abugharbieh, Rafeef		Univ. of British Columbia
Traboulosee, Anthony	Univ. of British Columbia, Multiple Sclerosis/Magnetic Res.	
McKeown, Martin		Univ. of British Columbia
18:45-19:00		ThD03.6
DTI-Based Virtual Reality System for Neurosurgery , pp. 1326-1329.		
Lo, Chun-Yi		Chung Yuan Christian Univ.
Chao, Yi-Ping		National Taiwan Univ.
Chou, Kun-Hsien		National Yang-Ming Univ.
Guo, Wan-Yuo	Taipei Veterans General Hospital	
Su, Jenn-Lung		Chun Yuan Univ.
Lin, Ching-Po		National Yang-Ming Univ.

ThD04		Bellecour 3
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Ultrasonic Signal and Image Processing (Oral Session)		
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Co-Chair: Saijo, Yoshifumi	Inst. of Development Aging and Cancer, TohokuUniversity	
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17:30-17:45		ThD04.1
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Automated Discrimination of Tissue Boundaries Using Ultrasound Images of "Ubiquitous Echo" , pp. 1330-1334.		
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Inoue, Masahiro		Saga Univ.
Bu, Nan	National Inst. of Advanced Industrial Science and Tech.	
Fukuda, Osamu		National Inst. of AIST
Okumura, Hiroshi		Saga Univ.

17:45-18:00		ThD04.2
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Multi-Modality 3D Breast Imaging with X-Ray Tomosynthesis and Automated Ultrasound , pp. 1335-1338.		
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Sinha, Sumedha		Univ. of Michigan
Roubidoux, Marilyn		Univ. of michigan
Helvie, Mark	Univ. of Michigan Medical School	
Nees, Alexis	Univ. of Michigan Medical School	
Goodsitt, Mitchell		Univ. of Michigan
LeCarpentier, Gerald		Univ. of Michigan
Fowlkes, Brian		Univ. of Michigan
Chalek, Carl		GE Global Res.
Carson, Paul L.		Univ. of Michigan

18:00-18:15		ThD04.3
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Discrete Fourier Analysis of Ultrasound RF Time Series for Detection of Prostate Cancer , pp. 1339-1342.		
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Moradi, Mehdi		Queen's Univ.
Mousavi, parvin		Queen's Univ.
Siemens, Robert	Kingston General Hospital	
Sauerbrei, Eric	Kingston General Hospital	
Isotalo, Phil	Kingston General Hospital	
Boag, Alexandre		Queen's Univ.
Abolmaesumi, Purang		Queen's Univ.

18:15-18:30		ThD04.4
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The Echotextural Characteristics for the Diagnosis of the Liver Cirrhosis Using the Sonographic Images , pp. 1343-1345.		
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Jeong, Ji-Wook	Electronics and Telecommunications Res. Inst.	
Lee, Sooyeul	Electronics & Telecom Res. Inst.	
Lee, Jeong Won	Electronics & Telecom Res. Inst.	
Yoo, Done-Sik	ETRI (Electronics & Telecom Res. Inst.	
Kim, Seunghwan	Electronics & Telecom Res. Inst.	

18:30-18:45		ThD04.5
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A System for Analyzing Intraoperative B-Mode Ultrasound Scans of the Liver , pp. 1346-1349.		
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Nowatschin, Stephan		Tech. Univ. Munich
Markert, Mathias		Tech. Univ. Munich
Weber, Stefan		Tech. Univ. of Munich
Lueth, Tim		Tech. Univ. of Munich

18:45-19:00		ThD04.6
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Ultrasound Speed and Impedance Microscopy for in Vivo Imaging , pp. 1350-1353.		
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Saijo, Yoshifumi	Inst. of Development Aging and Cancer, TohokuUniversity	
Hozumi, Naohiro		Aichi Inst. of Tech.
Kobayashi, Kazuto		Honda Electronics Co., Ltd.
Okada, Nagaya		HONDA ELECTRONICS CO., LTD.
Ishiguro, Toshimichi		HONDA ELECTRONICS
Hagiwara, Yoshihiro	Tohoku Univ. Graduate School of Medicine	
Santos Filho, Esmeraldo dos		Tohoku Univ.
Yambe, Tomoyuki		Tohoku Univ.

ThD05	Tête d'Or Lounge
Sensor Based Systems for Monitoring II (Oral Session)	
Co-Chair: Zhang, Yuan-Ting	The Chinese Univ. of Hong Kong
17:30-17:45	ThD05.1
Measurement System of Finger-Tapping Contact Force for Quantitative Diagnosis of Parkinson's Disease , pp. 1354-1357.	
Okuno, Ryuhei	Osaka Univ.
Yokoe, Masaru	Osaka Univ.
Fukawa, Kenichi	Osaka Univ.
Sakoda, Saburo	Osaka Univ.
Akazawa, Kenzo	Osaka Inst. of Tech.
17:45-18:00	ThD05.2
MAPI: Active Interface Pressure Sensor Integrated into a Seat , pp. 1358-1361.	
Meffre, Richard	INSA Lyon
Gehin, Claudine	INSA Lyon
Dittmar, Andre	INSA Lyon
18:00-18:15	ThD05.3
Monitoring of Respiration and Heartbeat During Sleep Using a Flexible Piezoelectric Film Sensor and Empirical Mode Decomposition , pp. 1362-1366.	
Bu, Nan	National Inst. of Advanced Industrial Science and Technology
Ueno, Naohiro	National Inst. of Advanced Industrial Science and Tech.
Fukuda, Osamu	National Inst. of AIST
18:15-18:30	ThD05.4
Determination of Simple Thresholds for Accelerometry-Based Parameters for Fall Detection , pp. 1367-1370.	
Kangas, Maarit	Univ. of Oulu
Konttila, Antti	Univ. of Oulu
Winblad, Ilkka	Univ. of Oulu
Jämsä, Timo	Univ. of Oulu
18:30-18:45	ThD05.5
Modified Pendulum Model for Mean Step Length Estimation , pp. 1371-1374.	
Gonzalez, Rafael C.	Univ. de Oviedo
Álvarez Prieto, Diego	Univ. de Oviedo
Lopez, Antonio M.	Univ. de Oviedo
Alvarez, Juan Carlos	Univ. de Oviedo
18:45-19:00	ThD05.6
In-Ear Heart Rate Monitoring Using a Micro-Optic Reflective Sensor , pp. 1375-1378.	
Vogel, Stefan	RWTH Aachen Univ.
Huelsbusch, Markus	RWTH Aachen Univ.
Starke, Dietmar	CiS Inst. fuer Mikrosensorik GmbH
Leonhardt, Steffen	RWTH Aachen Univ.
19:00-19:15	ThD05.7
Towards Automatic Detection of Falls Using Wireless Sensors , pp. 1379-1382.	
Srinivasan, Soundararajan	Robert Bosch LLC
Han, Jun	Carnegie Mellon Univ.
Lal, Dhananjay	Robert Bosch LLC
Gacic, Aca	Robert Bosch LLC
ThD06	Tête d'Or 2
Genetic Regulatory Networks (Oral Session)	
Co-Chair: Wang, May Dongmei	Georgia Tech. and Emory Univ.
17:30-17:45	ThD06.1
Is Dna Code Periodicity Only Due to Cuf – Codons Usage Frequency? , pp. 1383-1386.	
Zoltowski, Mariusz, Leslaw	Coll. Medicum of L.Rydygier in Bydgoszcz, NicolausCopernicus U
17:45-18:00	ThD06.2
Stability Analysis of Genetic Regulatory Networks with Multiple Time Delays , pp. 1387-1390.	
Wu, FangXiang	Univ. of Saskatchewan
18:00-18:15	ThD06.3
Mechanism of Permeation in Calcium Channels Activation by Applied Magnetic Fields , pp. 1391-1393.	
Zhang, Yuhong	Hebei Univ. of Tech.
ZHAN, Yong	Hebei Univ. of Tech.
Zhao, Tongjun	Hebei University of Tech.
Han, Yingrong	Hebei Univ. of Tech.
Liu, Hui	Hebei Univ. of Tech.
18:15-18:30	ThD06.4
A Platform for in Silico Modeling of Physiological Systems , pp. 1394-1397.	
Kawazu, Toshihiro	Osaka Univ.
Nomura, Taishin	Osaka Univ.
Nakanishi, Masao	Osaka Univ.
Suzuki, Yasuyuki	Osaka Univ.
18:30-18:45	ThD06.5
Modeling of Multiple Valued Gene Regulatory Networks , pp. 1398-1404.	
Garg, Abhishek	Ec. Pol. Federal de Laisannem Switzerland
Mendoza, Luis	Univ. Nacional Autónoma de México
XENARIOS, IOANNIS	Merck Serono
De Micheli, Giovanni	EPFL

18:45-19:00 ThD06.6
Computational Modeling of a Metabolic Pathway in Ceramide De Novo Synthesis, pp. 1405-1408.
 Dhingra, Shobhika Georgia Inst. of Tech.
 Freedenberg, Melissa Georgia Inst. of Tech.
 Quo, Chang Feng Georgia Inst. of Tech.
 Merrill, Alfred Georgia Inst. of Tech.
 Wang, May Dongmei Georgia Tech. and Emory Univ.

ThD07 Bellecour 2
Forward-Inverse Problems (Oral Session)

Chair: MacLeod, Rob Univ. of Utah
 17:30-17:45 ThD07.1

Images of Electrocardiographic Imaging, pp. 1409-1409.
 van Oosterom, Adriaan Univ. of Lausanne

18:00-18:15 ThD07.3

Computer Based Modeling of the Congenital Long-Qt 2 Syndrome in the Visible Man Torso: From Genes to ECG, pp. 1410-1413.
 Keller, David Urs Josef Univ. Karlsruhe (TH)
 Seemann, Gunnar Univ. Karlsruhe (TH)
 Weiss, Daniel L. Univ. Karlsruhe (TH)
 Farina, Dmytro Univ. of Karlsruhe
 Zehelein, Joerg Univ. Hospital Heidelberg
 Doessel, Olaf Univ. of Karlsruhe

18:15-18:30 ThD07.4

Influence of Size and Location of Myocardial Infarction on TCRT Parameter: A Computer Simulation Study, pp. 1414-1417.
 Karsikas, Mari Univ. of Oulu
 Perkiömäki, Juha S. Univ. of Oulu
 Huikuri, Heikki Univ. of Oulu
 Seppänen, Tapio Univ. of Oulu

18:30-18:45 ThD07.5

Computer Based Optimization of Biventricular Pacing According to the Left Ventricular 17 Myocardial Segments, pp. 1418-1421.
 Miri, Raz Univ. of Karlsruhe
 Reumann, Matthias Univ. Karlsruhe (TH)
 Keller, David Urs Josef Univ. Karlsruhe (TH)
 Farina, Dmytro Univ. of Karlsruhe
 Doessel, Olaf Univ. of Karlsruhe

18:45-19:00 ThD07.6

Evaluation of Different Meshing Algorithms in the Computation of Defibrillation Thresholds in Children, pp. 1422-1425.
 Stinstra, Jeroen Univ. of Utah
 Jolley, Matthew Boston Children's Hospital
 Weinstein, David Univ. of Utah
 Cole, Martin Univ. of Utah
 Brooks, Dana Northeastern Univ.
 Triedman, John Children's Hospital Boston
 MacLeod, Rob Univ. of Utah

ThD08 Gratte Ciel Lounge

Advanced Neural Signal Processing Methods I (Oral Session)

Chair: Lipping, Tarmo Tampere Univ. of Tech.
 Co-Chair: Thakor, Nitish Johns Hopkins Univ.

17:30-17:45 ThD08.1

Detection and Assessment of Spinal Cord Injury Using Spectral Coherence, pp. 1426-1429.
 Fatooh, Noreen American Univ. of Sharjah
 Mirza, Nabil American Univ. of Sharjah
 Ahmed, Rabi American Univ. of Sharjah
 Al-Nashash, Hasan American Univ. of Sharjah
 All, Angelo Johns Hopkins Univ.
 Thakor, Nitish Johns Hopkins Univ.

17:45-18:00 ThD08.2

Comparison of Three Spike Detectors Dedicated to Single Unit Action Potentials of the Auditory Nerve, pp. 1430-1433.
 Bourien, Jerome UFR Pharmacie - Univ. Montpellier1
 Ruel, Jerome INSERM-U583
 Senhadji, Lotfi Univ. of Rennes 1; INSERM
 Puel, Jean-Luc INSERM-U583, Univ. Montpellier1

18:00-18:15 ThD08.3

Toward Filtering of Athetoid Motion with Neural Networks, pp. 1434-1436.
 Vázquez López, Juan José Carnegie Mellon Univ.
 Sibenaller, Sara Univ. of Pittsburgh
 Ding, Dan Univ. of Pittsburgh
 Riviere, Cameron Carnegie Mellon Univ.

18:15-18:30 ThD08.4

Comparisons of FIR and IIR Implementations of a Subtraction-Based Stimulus Artifact Rejection Algorithm, pp. 1437-1440.
 Azin, Meysam Case Western Res. Univ.
 Chiel, Hillel Case Western Res. Univ.
 Mohseni, Pedram Case Western Res. Univ.

18:30-18:45		ThD08.5
Detection and Classification of Motor Nerve Late-Wave Activity , pp. 1441-1444.	Krishnamachari, Srivathsan Tracey, Brian Iyer, Darshan	Optimal Systems Lab. Inc. Neurometrix, Inc NEUROMetrix, Inc.
18:45-19:00		ThD08.6
Clustering Synaptically-Coupled Neuronal Populations under Systematic Variations in Temporal Dependence , pp. 1445-1448.	El Dawlatly, Seif Oweiss, Karim	Michigan State Univ. Michigan State Univ.

ThD09		Gratte Ciel 3
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Bio-Robotics (Oral Session)		
Chair: Micera, Silvestro		Scuola Superiore Sant'Anna
Co-Chair: Martel, Sylvain		Ec. Pol. de Montreal

17:30-17:45		ThD09.1
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Position Control Using 2D-To-2D Feature Correspondences in Vision Guided Cell Micromanipulation , pp. 1449-1452.		
Zhang, Yanliang		Nanyang Tech. Univ.
Ang, Wei Tech		Nanyang Tech. Univ.
Shee, Chengyap		Nanyang Tech. Univ.
Han, Mingli		Nanyang Tech. Univ.

17:45-18:00		ThD09.2
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Prototyping Artificial Jaws for the Bristol Dento-Munch Robo-Simulator 'A Parallel Robot to Test Dental Components and Materials' , pp. 1453-1456.		
Raabe, Daniel		Univ. of Bristol
Alemzadeh, Kazem		Univ. of Bristol

18:00-18:15		ThD09.3
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Mucoadhesive Micropatterns for Enhanced Grip , pp. 1457-1462.		
Dodou, Dimitra		Delft Univ. of Tech.
Del Campo, Aránzazu		Max-Planck-Inst. für Metallforschung
Arzt, Eduard		Max-Planck-Inst. für Metallforschung

18:15-18:30		ThD09.4
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Magnetic Resonance Imaging of Fe3O4 Nanoparticles Embedded in Living Magnetotactic Bacteria for Potential Use As Carriers for in Vivo Applications , pp. 1463-1466.		
Felfoul, Ouajdi		École Pol. de Montréal
Mohammadi, Mahmood		École Pol. de Montréal
Martel, Sylvain		Ec. Pol. de Montreal

18:30-18:45		ThD09.5
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Surgical Cartographic Navigation System for Endoscopic Bypass Grafting , pp. 1467-1470.		
Voruganti, Arun Kumar Raj		Innovation Center Computer Assisted Surgery (ICCAS)
Mayoral, Rafael		Innovation Center Computer Assisted Surgery (ICCAS)
Jacobs, Stephan		ICCAS
Grunert, Ronny		Univ. of Leipzig
Moeckel, Hendrik		Univ. of Leipzig
Korb, Werner		Univ. of Leipzig

18:45-19:00		ThD09.6
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Biorobotic Investigation on the Muscle Structure of an Octopus Tentacle , pp. 1471-1474.		
Mazzolai, Barbara		Scuola Superiore Sant'Anna
Laschi, Cecilia		Scuola Superiore Sant'Anna
Cianchetti, Matteo		Scuola Superiore Sant'Anna
Patane', Francesco		Scuola Superiore Sant'Anna
Bassi-Luciani, Lorenzo		Scuola Superiore Sant'Anna
Izzo, Ivano		Scuola Superiore Sant'Anna
Dario, Paolo		Scuola Superiore Sant'Anna

19:00-19:15		ThD09.7
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Magnetic Resonance Propulsion, Control and Tracking at 24 Hz of an Untethered Device in the Carotid Artery of a Living Animal: An Important Step in the Development of Medical Micro and Nanorobots , pp. 1475-1478.		
Martel, Sylvain		Ec. Pol. de Montreal

ThD10		Rhône 1
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Therapeutic Devices II (Oral Session)		
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17:30-17:45		ThD10.1
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Clinical Effects of Far-Infrared Therapy in Patients with Allergic Rhinitis , pp. 1479-1482.		
Hu, Ko-Hsin		Chung-Yuan Christian Univ.
Li, Wen-Tyng		Chung-Yuan Christian Univ.

17:45-18:00		ThD10.2
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Hyperthermia System with Thermoseed Set in Abdominal Cavity and AC-Magnetic-Field , pp. 1483-1486.		
Abe, Kaori		Ritsumeikan Univ.

18:00-18:15		ThD10.3
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Noninvasive Thermometry in a Reentrant Resonant Cavity; Applicator , pp. 1487-1490.		
Ishihara, Yasutoshi		Nagaoka Univ. of Tech.
Endo, Yuichiro		Nagaoka Univ. of Tech.
Ohwada, Hiroshi		Niigata Sangyo Univ.
Wadamori, Naoki		Nagaoka Univ. of Tech.

18:15-18:30		ThD10.4
Immunological Response Induced by Alternated Cooling and Heating of Breast Tumor , pp. 1491-1494.		
Dong, Jiaxiang	Shanghai Jiaotong Univ.	
Liu, Ping	Shanghai Jiao Tong Univ.	
Zhang, Aili	Shanghai Jiao Tong Univ.	
Xu, Lisa Xuemin	Shanghai Jiaotong Univ.	
18:30-18:45		ThD10.5
Heating Properties of Developed Needle Type Applicator Made of Shape Memory Alloy , pp. 1495-1498.		
Kanazawa, Yoshihiro	Meiji Univ.	
Kato, Kazuo	Meiji Univ.	
Yabuhara, Tadao	Meiji Univ.	
18:45-19:00		ThD10.6
Convective Cooling Affects Cardiac Catheter Cryoablation and Radiofrequency Ablation in Opposite Directions , pp. 1499-1502.		
Haemmerich, Dieter	Medical Univ. of South Carolina	
Pilcher, Thomas	Medical Univ. of South Carolina	
Saul, J. Philip	Medical Univ. of South Carolina	

ThD11 Tête d'Or 1

Personal Health Systems I (Oral Session)

Chair: Nugent, Chris Univ. of Ulster

17:30-17:45 ThD11.1

A Novel Approach to Classify Significant ECG Data Based on Heart Instantaneous Frequency and

ECG-Derived Respiration Using Conductive Textiles, pp. 1503-1506.

Noh, Yeon Sik	Yonsei Univ.
Park, Sung Jun	Yonsei Univ.
Park, Sung Bin	Yonsei Univ.
Yoon, Hyung Ro	Yonsei Univ.

17:45-18:00 ThD11.2

Roll-Over Detection and Sleep Quality Measurement Using a Wearable Sensor, pp. 1507-1510.

Miwa, Hiroyasu	National Inst. of Advanced Industrial Science and Technology
SASAHARA, Shin-ichiro	Graduate School of medicine, Univ. of Tsukuba
Matsui, Toshihiro	AIST

18:00-18:15 ThD11.3

Estimating Intensity of Physical Activity: A Comparison of Wearable Accelerometer and Gyro Sensors and 3 Sensor Locations, pp. 1511-1514.

Pärkkä, Juha	VTT
Ermes, Miikka	VTT Tech. Res. Centre
Antila, Kari	VTT
van Gils, Mark	VTT Tech. Res. Centre of Finland
Mänttari, Ari	UKK Inst.
Nieminen, Heikki	Nokia

18:15-18:30 ThD11.4

A New Model for Programming Software in Body Sensor Networks, pp. 1515-1518.

Barbosa, Talles M. G. de A.	Catholic Univ. of Goiás
Sene Jr, Iwens G.	Catholic Univ. of Goiás
da Rocha, Adson F.	Univ. of Brasilia
Assis de Oliveira Nascimento, Francisco	Univ. of Brasilia
Carvalho, João Luiz Azevedo de	Univ. of Southern California
Carvalho, Hervaldo Sampaio	Univ. of Brasília

18:30-18:45 ThD11.5

A Study on the Implementation of a Portable U-Healthcare System Using SNMP and AODV, pp. 1519-1522.

Seo, Jung-ho	Sejong Univ.
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18:45-19:00 ThD11.6

Development of Health Monitoring System Based on Three-Dimensional Imaging Using Bio-Signals and Motion Data, pp. 1523-1527.

Matsukawa, Tsuyoshi	Nagoya City Univ.
Umetani, Tomohiro	Nagoya City Univ.
Yokoyama, Kiyoko	Nagoya City Univ.

ThD12 Rhône 2

Student Paper Competition III (Oral Session)

Chair: Monzon, Jorge E. Univ. Nacional del Nordeste

17:30-17:45 ThD12.1

A Gaussian Mixture Model for Time-Frequency Analysis of Atrial Fibrillation Electrocardiograms*.

Corino, Valentina	Pol. di Milano
Mainardi, Luca	Pol. di Milano
Bollmann, Andreas	Univ. Hospital Magdeburg
Husser, Daniela	Univ. Hospital Magdeburg
Stridh, Martin	Lund Univ.
Sornmo, Leif	Lund Univ.

17:45-18:00		ThD12.2
<i>Optical Imaging of Electrically Evoked Visual Signals in Cats: I. Responses to Corneal and Intravitreal Electrical Stimulation*</i> .		
Wong, Yan Tat		Univ. of New South Wales
Hallum, Luke E.		Univ. of New South Wales
Chen, Spencer Chin-Yu		Univ. of New South Wales
Dommel, Norbert Brian		Univ. of New South Wales
Cloherly, Shaun L		Univ. of New South Wales
Morley, John William		Univ. of Western Sydney
Suaning, Gregg		The Univ. of Newcastle
Lovell, Nigel H		Univ. of New South Wales
18:00-18:15		ThD12.3
<i>Modeling the Influence of Body Position in Bioimpedance Measurements*</i> .		
Medrano, Guillermo	Aachen Univ. Helmholtz-Inst. for Biomedical	
Zhang, Peng	RWTH Aachen Univ.	
Leonhardt, Steffen	RWTH Aachen Univ.	

ThD13 Roseraie 1,2

Motion Artefact in Wearable Biomedical Sensor Systems (Invited Session)

Chair: Such, Olaf		Philips
Co-Chair: McAdams, Eric		Univ. of Ulster
Organizer: Such, Olaf		Philips
17:30-17:45		ThD13.1

A Comparative Evaluation of Adaptive Noise Cancellation Algorithms for Minimizing Motion Artifacts in a Forehead-Mounted Wearable Pulse Oximeter (I), pp. 1528-1531.

Comtois, Gary		WPI
Mendelson, Yitzhak		Worcester Pol. Inst.
Ramuka, Piyush		Worcester Pol. Inst.

17:45-18:00 ThD13.2

Reducing Motion Artefacts of Capacitive Sensors (I), pp. 1532-1532.

Feddes, Bas		Philips Res.
Gourmelon, Lena		Philips Res.
Meftah, Mohammed		Philips Res.
Ikkink, Ton		Philips Res.

18:00-18:15 ThD13.3

Quantification of Motion Artifact in ECG Electrode Design (I), pp. 1533-1536.

Kearney, Kenneth		Sensor Tech. & Devices Ltd
Thomas, Chris		Univ. of Ulster
McAdams, Eric		Univ. of Ulster

18:15-18:30 ThD13.4

On the Reliability of Pulse Oximetry at the Sternum (I), pp. 1537-1537.

Sola, Josep		Swiss Center for Electr & Micro
Olivier, Chételat		CSEM
Krauss, Jens		CSEM

18:30-18:45 ThD13.5

Development of Real-Time Motion Artifact Reduction Algorithm for a Wearable Photoplethysmography, pp. 1538-1541.

Han, Hyonyoung		Korea Advanced Inst. of Science and Tech.
Kim, Min-Joon		H3 System, Co. Ltd.
Kim, Jung		Korea Advanced Inst. of Science and Tech.

18:45-19:00 ThD13.6

Motion Tolerance in Wearable Sensors - the Challenge of Motion Artefact (I), pp. 1542-1545.

Such, Olaf		Philips
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FrA01 Gratte Ciel 1

Time-Frequency and Time-Scale Analysis IV (Oral Session)

Chair: Duchêne, Jacques		UTT
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08:30-08:45 FrA01.1

Modified Mixture of Experts for Analysis of EEG Signals, pp. 1546-1549.

Ubeyli, Elif Derya		TOBB Ec. and Tech. Univ.
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08:45-09:00 FrA01.2

Influence of Small Eye Movement on Perceptual Filling-In Time, pp. 1550-1553.

Yokota, Masae		Nagoya Bunri Univ.
Yokota, Yasunari		Gifu Univ.

09:00-09:15 FrA01.3

A New Wavelet-Based Algorithm for Compression of Emg Signals, pp. 1554-1557.

Berger, Pedro		Univ. de Brasília
Assis de Oliveira Nascimento, Francisco		Univ. of Brasília
da Rocha, Adson F.		Univ. of Brasília
Carvalho, João Luiz Azevedo de		Univ. of Southern California

09:15-09:30 FrA01.4

Wavelet-Based Multiscale Analysis of Minimum Toe Clearance Variability in the Young and Elderly During Walking, pp. 1558-1561.

Khandoker, Ahsan Habib		The Univ. of Melbourne
Karmakar, Chandan Kumar		The Univ. of Melbourne
Begg, Rezaul		Victoria Univ.
Palaniswami, Marimuthu		The Univ. of Melbourne

09:30-09:45		FrA01.5
Hilbert-Huang Transformation: Application to Postural Stability Analysis , pp. 1562-1565.		
Amoud, Hassan		UTT
Snoussi, Hichem		UTT
Hewson, David J	Univ. de Tech. de Troyes	
Duchêne, Jacques		UTT
09:45-10:00		FrA01.6
Application of the Empirical Mode Decomposition Method to the Analysis of Respiratory Mechanomyographic Signals , pp. 1566-1569.		
Torres, Abel	Univ. Pol. de Catalunya	
Fiz Fernandez, José Antonio	Hospital Univ. Germans Trias i Pujol	
Jané, Raimon	Univ. Pol. de Catalunya	
Galdiz, Juan Bautista	Hospital Cruces	
Gea, Joaquim	Hospital del Mar	
Morera Prat, Jose	Hospital Univ. Germans Trias i Pujol	

FrA02		Gratte Ciel 2
Signal Processing and Physiological System Modeling IV (Oral Session)		

Chair: Cluitmans, Pierre J.M.	Eindhoven Univ. of Tech.
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08:30-08:45		FrA02.1
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EEG Frequency Progression During Induction of Anesthesia: From Start of Infusion to Onset of Burst Suppression Pattern, pp. 1570-1573.

Kortelainen, Jukka Johannes	Univ. of Oulu
Koskinen, Miika Kimmo Juhani	Univ. of Oulu
Mustola, Seppo Tapani	South Karelia Central Hospital
Seppänen, Tapio	Univ. of Oulu

08:45-09:00		FrA02.2
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Control of Depth of Anesthesia Using MUSMAR - Exploring Electromyography and the Analgesic Dose As Accessible Disturbances, pp. 1574-1577.

Nunes, Catarina S	Faculdade de Ciências da Univ. do Porto
Mendonça, Teresa	Faculdade de Ciências
Lemos, João	INESC
Amorim, Pedro	Hospital Geral de Santo António

09:00-09:15		FrA02.3
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Model-Based Measurement of Epileptic Tissue Excitability, pp. 1578-1581.

Frogerais, Paul	INSERM - Univ. de Rennes 1
Bellanger, Jean-Jacques	LTSI-INSERM U642
WENDLING, Fabrice	INSERM - Univ. de Rennes 1

09:15-09:30		FrA02.4
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Model for Arm Movements During Myoclonic Seizures, pp. 1582-1585.

Nijssen, Tamara M.E.	Epilepsy Center Kempenhaeghe
Aarts, Ronald	Philips
Arends, Johan B.A.M.	Epilepsy Center Kempenhaeghe
Cluitmans, Pierre J.M.	Eindhoven Univ. of Tech.

09:30-09:45		FrA02.5
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The Pupil As a Possible Premonitor of Drowsiness, pp. 1586-1589.

Nishiyama, Junpei	Chubu Univ. Coll. of Engineering.
Tanida, Koji	Honda R&D Co.,Ltd
Kusumi, Masashi	Honda R&D Co.,Ltd.
Hirata, Yutaka	Chubu Univ. Coll. of Eng

09:45-10:00		FrA02.6
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Correction for Desynchronization of EEG and Fmri Clocks through Data Interpolation Optimizes Artifact Reduction, pp. 1590-1594.

Goncalves-Verheij, Sonia I.	VU Univ. Medical Centre
Pouwels, P. J. W.	VU Univ. Medical Centre
Kuijjer, J. P. A.	VU Univ. Medical Centre
Heethaar, R. M.	VU Univ. Medical Centre
de Munck, J. C.	VU Univ. Medical Centre

FrA03		Bellecour 1
MR Image Processing and Analysis II (Oral Session)		

Chair: Panahi, Issa	Univ. of Texas at Dallas
Co-Chair: Lam, Edmund Y.	Univ. of Hong Kong

08:30-08:45		FrA03.1
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Multimodal MRI Segmentation of Ischemic Stroke Lesions, pp. 1595-1598.

Kabir, Yacine	INSERM U836 UJF-CEA-CHU (Grenoble Inst. of Neuroscience)
Dojat, Michel	INSERM U836 UJF-CEA-CHU (Grenoble Inst. of
Scherrer, Benoit	INSERM U836 UJF-CEA-CHU (Grenoble Inst. of
Forbes, Florence	INRIA- Jean Kuntzman Lab. , Grenoble Univ.
Garbay, Catherine	LIG CNRS UMR 5217 (MAGMA)

08:45-09:00		FrA03.2
Improvement of Automated Detection Method of Lacunar Infarcts in Brain MR Images , pp. 1599-1602.		
Uchiyama, Yoshikazu		Gifu Univ.
Yokoyama, Ryujiro		Gifu Univ.
Ando, Hiromichi		Gifu Municipal Hospital
Asano, Takahiko		Graduate School of Medicine, Gifu Univ.
Kato, Hiroki		Graduate School of Medicine, Gifu Univ.
Yamakawa, Hiroyasu		Chuno-Kousei Hospital
Yamakawa, Haruki		Graduate School of Medicine, Gifu Univ.
Hara, Takeshi		Gifu Univ. Graduate Sch of Medicine
Iwama, Toru		Graduate School of Medicine, Gifu Univ.
Hoshi, Hiroaki		Gifu Univ.
Fujita, Hiroshi		Gifu Univ.
09:00-09:15		FrA03.3
Volume Mesh Generation and Finite Element Analysis of Trabecular Bone Magnetic Resonance Images , pp. 1603-1606.		
Alberich-Bayarri, Angel		Univ. Pol. de València
Moratal, David		Univ. Pol. de València
Martí-Bonmatí, Luis		Hospital Quirón-Valencia
Salmerón-Sánchez, Manuel		Univ. Pol. de València
Vallés-Lluch, Ana		Univ. Pol. de València
Nieto-Charques, Laura		Univ. Pol. de València
Rieta, J. J.		Valencia Univ. of Tech.
09:15-09:30		FrA03.4
Quantitative Study of Signal Decay Due to Magnetic Susceptibility Interfaces: MRI Simulations and Experiments , pp. 1607-1610.		
DE GUIO, Francois		Cemagref
BENOIT-CATTIN, Hugues		INSA Lyon
DAVENEL, Armel		Cemagref
09:30-09:45		FrA03.5
ICA for Ovary Tissue Classification of Perfusion Magnetic Resonance Images , pp. 1611-1614.		
Rieta, J. J.		Valencia Univ. of Tech.
Moratal, David		Univ. Pol. de València
Martí-Bonmatí, Luis		Hospital Quirón-Valencia
Molina, Raquel		EPSC
Vallés-Lluch, Ana		Univ. Pol. de València
Sanz-Requena, Roberto		Hospital Quirón-Valencia
09:45-10:00		FrA03.6
Neural Physiological Modeling towards a Hemodynamic Response Function for Fmri , pp. 1615-1618.		
Afonso, David Miguel		Inst. Superior Técnico / Inst. de Sistemas e Robótica
Sanches, João		Inst. Superior Técnico / Inst. de SistemaseRobótica
Lauterbach, Martin Hagen		Univ. de Lisboa

FrA04		Bellecour 3
Optical Imaging I (Oral Session)		

08:30-08:45		FrA04.1
Backscattered Stokes Vectors of Turbid Media: Anisotropy Factor and Reduced Scattering Coefficient Estimation , pp. 1619-1622.		
Falconet, Julie		Univ. de Lyon, Univ. Lyon1
Sablong, Raphaël		Univ. Claude Bernard Lyon 1
PERRIN, Emmanuel		Univ. Lyon 1
Jaillon, Franck		National Univ. of Singapore
Saint-Jalmes, Hervé		Univ. de Lyon, Univ. Lyon1
08:45-09:00		FrA04.2
Model-Based Detection of White Matter in Optical Coherence Tomography Data , pp. 1623-1626.		
Gasca, Fernando		Univ. Iberoamericana, Mexico City
Ramrath, Lukas		Univ. of Lübeck
09:00-09:15		FrA04.3
Retinal Blood Oxygen Saturation Mapping by Multispectral Imaging and Morphological Angiography , pp. 1627-1630.		
Arimoto, Hidenobu		Natl Inst. of Advd Industrial Sci & Tech.
Furukawa, Hiromitsu		National Inst. of Advanced Industrial Science and Tech.
09:15-09:30		FrA04.4
Cells Tracking in a Live Zebrafish Embryo , pp. 1631-1634.		
Melani, Camilo		Univ. de Buenos Aires
Campana, Matteo		Bologna Univ.
lombardot, benoit		CNRS - Ec. Pol.
Rizzi, Barbara		Bologna Univ.
Veronesi, Federico		Univ. of Bologna
Zanella, Cecilia		Bologna Univ.
Bourgine, Paul		Ec. Pol.
Mikula, Karol		Slovak Univ. of Tech.
Peyrieras, Nadine		CNRS
Sarti, Alessandro		Univ. of Bologna

09:30-09:45		FrA04.5
Optical Imaging of Electrically Evoked Visual Signals in Cats: I. Responses to Corneal and Intraocular Electrical Stimulation , pp. 1635-1638.		
Wong, Yan Tat		Univ. of New South Wales
Hallum, Luke E.		Univ. of New South Wales
Chen, Spencer Chin-Yu		Univ. of New South Wales
Dommel, Norbert Brian		Univ. of New South Wales
Cloherly, Shaun L.		Univ. of New South Wales
Morley, John William		Univ. of Western Sydney
Suaning, Gregg		The Univ. of Newcastle
Lovell, Nigel H		Univ. of New South Wales
09:45-10:00		FrA04.6
FDTD Simulation of Electromagnetic Wave Scattering from Retina Cells , pp. 1639-1642.		
Abdallah, Samer		Univ. of Waterloo
Ramahi, Omar		Univ. of Waterloo
Bizheva, Kostadinka		Univ. of Waterloo
FrA05		Tețe d'Or Lounge
Wireless Biomedical Sensors, Body Sensor Networks and Telemetric Systems I (Oral Session)		
Chair: Noury, Norbert		Univ. Joseph Fourier Grenoble
08:30-08:45		FrA05.1
Feasibility of Heart Rate Variability Measurement from Quadrature Doppler Radar Using Arctangent Demodulation with DC Offset Compensation , pp. 1643-1646.		
Massagram, Wansuree		Univ. of Hawaii
Hafner, Noah		Univ. of Hawaii
Park, Byung-Kwon		Univ. of Hawaii at Manoa
Lubecke, Victor		Univ. of Hawaii Manoa
Host-Madsen, Anders		Univ. of Hawaii
Boric-Lubecke, Olga		Univ. of Hawaii Manoa
08:45-09:00		FrA05.2
ZigBee-Based Wireless Intra-Oral Control System for Quadriplegic Patients , pp. 1647-1650.		
Qiyu, Peng		Lawrence Berkeley National Lab. Univ. of California
Budinger, Thomas		Lawrence Berkeley National Lab. Univ. of California
09:00-09:15		FrA05.3
Design Guidelines for Radio Frequency Non-Contact Vital Sign Detection , pp. 1651-1654.		
Li, Changzhi		Univ. of Florida
Xiao, Yanming		Univ. of Florida
Lin, Jenshan		Univ.
09:15-09:30		FrA05.4
Design of an Indoor Self-Positioning System for the Visually Impaired -Simulation with RFID and Bluetooth in a Visible Light Communication System , pp. 1655-1658.		
Liu, Xiaohan		Niigata Univ.
Makino, Hideo		Niigata Univ.
Kobayashi, Suguru		Niigata Univ.
Maeda, Yoshinobu		Niigata Univ.
09:30-09:45		FrA05.5
A Reconfigurable, Wearable, Wireless ECG System , pp. 1659-1662.		
Borromeo, Susana		Univ. Rey Juan Carlos
Rodriguez-Sanchez, Cristina		Univ. rey Juan Carlos
Machado, Felipe		Univ. Rey Juan Carlos
Hernandez-Tamames, Juan Antonio		Univ. Rey Juan Carlos
de la Prieta, Roberto		Univ. rey Juan Carlos
09:45-10:00		FrA05.6
Fall Detection – Principles and Methods , pp. 1663-1666.		
Noury, Norbert		Univ. Joseph Fourier Grenoble
Fleury, Anthony		Univ. Joseph Fourier
Rumeau, Pierre		CHU Toulouse
10:00-10:15		FrA05.7
Noise Considerations for Remote Detection of Life Signs with Microwave Doppler Radar , pp. 1667-1670.		
NGUYEN, DUNG		Univ. of Hawaii, Manoa
Yamada, Shuhei		Univ. of Hawaii, Manoa
Park, Byung-Kwon		Univ. of Hawaii at Manoa
Lubecke, Victor		Univ. of Hawaii Manoa
Boric-Lubecke, Olga		Univ. of Hawaii Manoa
Host-Madsen, Anders		Univ. of Hawaii
FrA06		Tețe d'Or 2
New Transducer Technologies, Methods and Systems (Oral Session)		
Chair: Guillemaud, Regis		CEA Lėti MINATEC
08:30-08:45		FrA06.1
Mapping the Human Body for Vibrations Using an Accelerometer , pp. 1671-1674.		
Barbosa Rendón, David		Univ. of Cádiz
Rojas Ojeda, Juan Luis		Univ. of Cádiz
Cresp Foix, Felipe		Univ. of Cádiz
Sánchez Morillo, Daniel		Univ. of Cádiz
Fernández Granero, Miguel Ángel		Univ. of Cádiz

08:45-09:00		FrA06.2
Modelling and Design of Extremely Low Frequency Uniform Magnetic Field Exposure Apparatus for in Vivo Bioelectromagnetic Studies , pp. 1675-1678.		
Cvetkovic, Dean		RMIT Univ.
Cosic, Irena		RMIT Univ.
09:00-09:15		FrA06.3
An Ultrawideband Radar Based Pulse Sensor for Arterial Stiffness Measurement , pp. 1679-1682.		
Tao, Teh-Ho		Industrial Tech. Res. Inst.
Hu, Shih Jen		ITRI
Kuo, Su-Chen		Industrial Tech. Res. Inst.
PENG, JIA-HUNG		ITRI
09:15-09:30		FrA06.4
Measurement of Heart Sounds with EMFi Transducer , pp. 1683-1686.		
Kärki, Satu		Tampere Univ. of Tech.
Lekkala, Jukka		Tampere Univ. of Tech.
Kääriäinen, Minna		Tampere Univ. Hospital
09:30-09:45		FrA06.5
Direction Dependent Response of Human Skin , pp. 1687-1690.		
Tanaka, Nobuyuki		Hiroshima Univ.
Kaneko, Makoto		Hiroshima Univ.
FrA07		Bellecour 2
Vascular Hemodynamics (Oral Session)		
Chair: Li, John K-J.		Rutgers Univ.
Co-Chair: Barnea, Ofer		Tel Aviv Univ.
08:30-08:45		FrA07.1
A Semi-Automatic Feature Detection Algorithm for Hemodynamic Signals Using Curvature-Based Feature Extraction , pp. 1691-1694.		
Mynard, Jonathan		Murdoch Children's Res. Inst.
Penny, Daniel		Murdoch Children's Res. Inst.
Smolich, Joseph		Murdoch Children's Res. Inst.
08:45-09:00		FrA07.2
Energetics in Arterioles During Nitric Oxide Dependent and Independent Vasodilation , pp. 1695-1698.		
Shibata, Masahiro		Univ. of Tokyo
Yamakoshi, Takehiro		Kanazawa Univ.
Yamakoshi, Ken-ichi		Kanazawa Univ.
09:00-09:15		FrA07.3
Simulation of the Interaction between Blood Flow and Atherosclerotic Plaque , pp. 1699-1702.		
Li, Zhi-Yong		Univ. of Cambridge
Gillard, Jonathan H.		Univ. of Cambridge
09:15-09:30		FrA07.4
Assessment of Pulse Wave Velocity and Augmentation Index in Different Arteries in Patients with Severe Coronary Heart Disease , pp. 1703-1706.		
Hlimonenko, Irina		Tallinn Univ. of Tech.
Meigas, Kalju		Tallinn Univ. of Tech.
Viigimaa, Margus		Tech. of the Tallinn Inst. of Tech.
Temitski, Kristina		Tallinn Univ. of Tech.
09:30-09:45		FrA07.5
Relationships between Blood Pressure and Systolic Time-Intervals: A Lumped-Model Simulation Study , pp. 1707-1710.		
Aubert, Xavier		Philips Res. Lab. Aachen
Muehlsteff, Jens		Philips
Zhu, Cheng		RWTH Aachen Univ.
FrA08		Gratte Ciel Lounge
Neural Stimulation I (Oral Session)		
Chair: Veltink, Peter		Univ. of Twente
Co-Chair: Troyk, Philip		Illinois Inst. of Tech.
08:30-08:45		FrA08.1
Computation of the Electrical Potential Inside the Nerve Induced by an Electrical Stimulus , pp. 1711-1714.		
Jacquir, Sabir		INRIA
Fruitet, Joan		ENS
Guiraud, David		INRIA
Clerc, Maureen		ENPC, ENS, INRIA
08:45-09:00		FrA08.2
The Role of Tissue Heterogeneity in Neural Stimulation by Applied Electric Fields , pp. 1715-1718.		
Miranda, Pedro		Faculty of Science, Univ. of Lisbon
Correia, Ludovic		Faculdade de Ciências, Univ. de Lisboa
Salvador, Ricardo		Faculty of Science, Univ. of Lisbon, Inst. of Biophysic
Basser, Peter		NIH
09:00-09:15		FrA08.3
Conduction Block Induced by High Frequency AC Stimulation in Unmyelinated Nerves , pp. 1719-1722.		
Joseph, Laveeta		Georgia Inst. of Tech.
Haeffele, Benjamin David		Georgia Inst. of Tech.
Butera, Robert		Georgia Inst. of Tech.

09:15-09:30		FrA08.4
<i>NIR Light Penetration in the Rat Peripheral Nerve and Brain Cortex</i> , pp. 1723-1725.		
Sahin, Mesut		New Jersey Inst. of Tech.
09:30-09:45		FrA08.5
<i>Assessing Polarization of AIROF Microelectrodes</i> , pp. 1726-1729.		
Troyk, Philip		Illinois Inst. of Tech.
Hu, Zhe		Illinois Inst. of Tech.
Cogan, Stuart		EIC Lab. Inc.
09:45-10:00		FrA08.6
<i>IMES: An Implantable Myoelectric Sensor</i> , pp. 1730-1733.		
Troyk, Philip		Illinois Inst. of Tech.
DeMichele, Glenn		Sigenics Inc.
Kerns, Douglas		Sigenics Inc.
Weir, Richard		Rehabilitation Inst. of Chicago

FrA09		Gratte Ciel 3
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Human-Robot Interactions I (Oral Session)	
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Chair: Alsaraira, Amer		Monash Univ.
Co-Chair: Sakai, Kensaku		AIST
08:30-08:45		FrA09.1
<i>Tool/tissues Interaction Modeling for Transluminal Angioplasty Simulation</i> , pp. 1734-1737.		
Le Fol, Tanguy		LTSI
Haigron, Pascal		Univ. of Rennes 1
Lucas, Antoine		CHU Rennes
08:45-09:00		FrA09.2
<i>A New Method for Optimized Laser Treatment by Laser Focus Navigation and Distance Visualization</i> , pp. 1738-1741.		
Stopp, Sebastian		Tech. Univ. Munich
Svejdar, Daniel		Tech. Univ. München
Deppe, Herbert		Tech. Univ. München
Lueth, Tim		Tech. Univ. of Munich
09:00-09:15		FrA09.3
<i>A Computer-Based Real-Time Simulation of Interventional Radiology</i> , pp. 1742-1745.		
Wang, Fei		Swiss Federal Inst. of Tech. Lausanne
Duratti, Lindo		Swiss Federal Inst. of Tech. Lausanne
Samur, Evren		Ec. Pol. Fédérale de Lausanne (EPFL)
Spaelter, Ulrich		Ec. Pol. Fédérale de Lausanne
Bleuler, Hannes		Ec. Pol. Fédérale de Lausanne, EPFL
09:15-09:30		FrA09.4
<i>Design of a Medical Simulator for Subcutaneous Contraceptive Implant Insertion</i> , pp. 1746-1749.		
Jardin, Audrey		Inst. National des Sciences Appliquées (INSA de Lyon)
Moreau, Richard		INSA-Lyon
Pham, Minh Tu		Inst. National des Sciences Appliquées (INSA de Lyon)
Mallet, Aurelien		INSA de Lyon
Redarce, Tanneguy		Inst. National des Sciences Appliquées (INSA de Lyon)
Dupuis, Olivier		Hospices Civils de Lyon
09:30-09:45		FrA09.5
<i>Mechatronic Resectoscope Emulator for a Surgery Simulation Training System of the Prostate</i> , pp. 1750-1753.		
Padilla Castañeda, Miguel Angel		Univ. Nacional Autonoma de Mexico
Altamirano del Monte, Felipe		UNAM
Arámbula Cosío, Fernando		National Autonomous Univ. of México
Marquez, Jorge Alberto		UNAM-CCADET
09:45-10:00		FrA09.6
<i>Modeling of the Changes in Heart Rate and Blood Pressure with Characteristic Respiratory Waveform During Surgery under Local Anesthesia</i> , pp. 1754-1757.		
Sakai, Kensaku		AIST
Matsui, Toshihiro		AIST

FrA10		Rhône 1
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Clinical Engineering I (Oral Session)	
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Chair: Sloane, Elliot B.		Villanova Univ.
08:30-08:45		FrA10.1
<i>Health Technology Assessment on Reprocessing Single-Use Catheters for Cardiac Electrophysiology: Results of a Three-Years Study</i> , pp. 1758-1761.		
Tessarolo, Francesco		Univ. of Trento
Disertori, Marcello		Azienda Provinciale per i Servizi Sanitari
Caola, Iole		Azienda Provinciale per i Servizi Sanitari
Guarrera, Giovanni Maria		Azienda Provinciale per i Servizi Sanitari
Favaretti, Carlo		Azienda Provinciale per i Servizi Sanitari
Nollo, Giandomenico		Univ. of Trento
08:45-09:00		FrA10.2
<i>Assessment of User Perspectives of Cardiac Point of Care Technologies in Chest Pain Diagnosis</i> , pp. 1762-1765.		
FitzGibbon, Francis		Univ. of Ulster
Brown, Alan		Univ. of Ulster
Meenan, Brian		Univ. of Ulster

09:00-09:15		FrA10.3
Cost-Return Prediction in Morbidly Obese Employees Following Weight Loss Interventions: A Study Framework , pp. 1766-1769.		
Windyga, Piotr		Univ. of Central Florida
Keith, Kim		Florida Hospital Celebration Health
Vickie, White		Florida Hospital Celebration Health
Leon, Michael		Florida Hospital Celebration Health
Bag, Anirban		UCF
Chen, Wei		UCF
09:15-09:30		FrA10.4
Prediction of Glucose Excursions under Uncertain Parameters and Food Intake in Intensive Insulin Therapy for Type 1 Diabetes Mellitus , pp. 1770-1773.		
Calm, Remei		Univ. de Girona
García Jaramillo, Maira Alejandra		Univ. of Girona
Vehi, Josep		Univ. of Girona
Bondia, Jorge		Tech. Univ. of Valencia
Tarín, Cristina		Tech. Univ. of Valencia
García-Gabin, Winston		Univ. of Girona
09:30-09:45		FrA10.5
An Experimental Architecture for Observation of Triage Related Decision Making , pp. 1774-1777.		
Farmer, Katherine		Dartmouth Coll.
McGrath, Susan		Dartmouth Coll.
Blike, George		Dartmouth Hitchcock Medical Center
09:45-10:00		FrA10.6
Management of Medical Technology - Case Study of a Major Acute Hospital , pp. 1778-1781.		
Brown, Ian		Monash Univ.
Smale, Andrew		Monash Univ.
10:00-10:15		FrA10.7
The Role of the Clinical Engineer in the Design of New Hospitals , pp. 1782-1785.		
DECOUVELAERE, MARTINE		HOSPICES CIVILS DE LYON
BERRARD, ERIC		HOSPICES CIVILS DE LYON
FABREGA, Danielle		HOPITAL EDOUARD HERRIOT

FrA11

Personal Health Systems II (Oral Session)

Tête d'Or 1

Chair: Tyrer, Harry		Univ. of Missouri - Columbia
Co-Chair: Celler, Branko George		Univ. of New South Wales
08:30-08:45		FrA11.1
A Concept for ICT Assisted Health Promotion in the Occupational Healthcare , pp. 1786-1789.		
Mattila, Elina		VTT
Koskelo, Jukka		Finnish Inst. of Occupational Health
Lappalainen, Raimo		Univ. of Jyväskylä
Salminen, Jukka		Nokia
Nyman, Petri		Afetco Ltd.
Lähteenmäki, Jaakko, Johannes		VTT Tech. Res. Centre of Finland
Leino, Timo		Finnish Inst. of Occupational Health
Korhonen, Ilkka		VTT
08:45-09:00		FrA11.2
Biomedical Digital Assistant for Ubiquitous Healthcare , pp. 1790-1793.		
Lee, Tae Soo		Chungbuk National Univ.
Hong, Joo Hyun		Chungbuk National Univ.
Cho, Myeong-Chan		Chungbuk National Univ.
09:00-09:15		FrA11.3
An M-Health Monitoring System for Children with Suspected Arrhythmias , pp. 1794-1797.		
Kyriacou, Efthymoulos		Univ. of Cyprus
Pattichis, Constantinos		Univ. of Cyprus
Pattichis, Marios		Univ. of New Mexico,
Jossif, Antonis		Makareios Hospital
Paraskeva, Loucas		Univ. of Cyprus
Constantinides, Angelos		Univ. of Cyprus
Vogiatzis, Dimitrios		Univ. of Cyprus
09:15-09:30		FrA11.4
Wireless Vital Sign Monitoring Using Ultra Wideband-Based Personal Area Networks , pp. 1798-1801.		
Takizawa, Kenichi		National Inst. of Information and Communications Technology
09:30-09:45		FrA11.5
Ontology-Based Approach for Managing Personal Health and Wellness Information , pp. 1802-1805.		
Sachinopoulou, Anna		VTT
Leppänen, Juha		VTT
Kaijanranta, Hannu Sakari		VTT
Lähteenmäki, Jaakko, Johannes		VTT Tech. Res. Centre of Finland

FrA12	Rhône 2
Health Technologies and Private Public Partnerships in Emerging Markets: Example Projects to Learn from I (Invited Session)	
Chair: Roes, Jan	Pernosco
Organizer: Roes, Jan	Pernosco
08:30-08:45	FrA12.1
Private Public Collaborations in Emergent Innovation Programs (I) , pp. 1806-1807.	
Roes, Jan	Pernosco
Such, Olaf	Philips
FrA13	Roseraie 1,2
Gerotechnology (Invited Session)	
Chair: Micera, Silvestro	Scuola Superiore Sant'Anna
Co-Chair: Tamura, Toshiyo	Chiba Univ. Graduate School of Engineering
Organizer: Micera, Silvestro	Scuola Superiore Sant'Anna
08:30-08:45	FrA13.1
PC-Based Rehabilitation Tool for the Elderly (I) , pp. 1808-1809.	
Tamura, Toshiyo	Chiba Univ. Graduate School of Engineering
08:45-09:00	FrA13.2
Older Adult Perceptions of Smart Home Technologies: Implications for Research, Policy & Market Innovations in Healthcare (I) , pp. 1810-1815.	
Coughlin, Joseph	Massachusetts Inst. of Tech.
D'Ambrosio, Lisa	Massachusetts Inst. of Tech.
Reimer, Bryan	Massachusetts Inst. of Tech.
Pratt, Michelle	Massachusetts Inst. of Tech.
09:00-09:15	FrA13.3
Preliminary Experiments on the Acceptability of Animaloid Companion Robots by Older People with Early Dementia (I) , pp. 1816-1819.	
Odetti, Luca	Scuola Superiore Sant'Anna
09:15-09:30	FrA13.4
A Wearable Pelvic Sensor Design for Drop Foot Treatment in Post-Stroke Patients (I) , pp. 1820-1823.	
O'Keeffe, Derek	Univ. of Limerick
Gates, Deanna	Harvard Medical School
Bonato, Paolo	Harvard Medical School
09:30-09:45	FrA13.5
Body Surface Mounted Biomedical Monitoring System; Using Bluetooth (I) , pp. 1824-1825.	
Nambu, Masayuki	Osaka Electro-Communication Univ.
09:45-10:00	FrA13.6
Development of a Fully Automated Network System for Long-Term Health-Care Monitoring at Home (I) , pp. 1826-1829.	
Motoi, Kosuke	Kanazawa Univ.
Kubota, Shinnosuke	Kanazawa Univ.
Ikarashi, Akira	Ishikawa Sunrise Industries Creation
Nogawa, Masamichi	Kanazawa Univ.
Tanaka, Shinobu	Kanazawa Univ.
Nemoto, Tetsu	Univ. of Kanazawa
Yamakoshi, Ken-ichi	Kanazawa Univ.
FrP1A1	Forum 5&6
Time-Frequency and Time-Scale Analysis V (Poster Session)	
10:30-12:00	FrP1A1.1
Combined Method for Artifact Reduction in Surface Electroenterogram , pp. 1830-1833.	
Ye, Yiyao	Univ. Pol. de Valencia
Garcia-Casado, Javier	Univ. Pol. de Valencia
Martinez-de-Juan, Jose Luis	Centro de investigación e Innovación
Álvarez Martínez, David	Hospital Univ. La Fe de Valencia
Prats-Boluda, Gema	Centro de investigación e Innovación en Bioingeniería
Ponce, Jose Luis	Hospital Univ. La Fe
10:30-12:00	FrP1A1.2
Migraine Detection through Spontaneous EEG Analysis , pp. 1834-1837.	
Bellotti, Roberto	Univ. of Bari
De Carlo, Francesco	Univ. of Bari
de Tommaso, Marina	Univ. of Bari
Lucente, Mariangela	Univ. of Bari
10:30-12:00	FrP1A1.3
Wavelet Bidomain Regularity Analysis to Predict Spontaneous Termination of Atrial Fibrillation , pp. 1838-1841.	
Alcaraz Martinez, Raul	Univ. of Castilla-La Mancha
Rieta, J. J.	Valencia Univ. of Tech.
10:30-12:00	FrP1A1.4
Alterations in Human ECG Due to the MagnetoHydroDynamic Effect: A Method for Accurate R Peak Detection in the Presence of High MHD Artifacts , pp. 1842-1845.	
Abi-Abdallah, Dima	Univ. of Tech. of Compiègne
Robin, Vincent	UTC
Drochon, Agnès	UTC
Fokapu, Odette	UTC

- 10:30-12:00 FrP1A1.5
Wavelet Analysis for Quantification of Mental Stress Stage by Finger-Tip Photo-Plethysmography, pp. 1846-1849.
 Kageyama, Yu Tokyo Denki Univ.
- 10:30-12:00 FrP1A1.6
An Analogue Bandpass Filter Realisation of the Continuous Wavelet Transform, pp. 1850-1854.
 Casson, Alexander James Imperial Coll. London
 Yates, David Imperial Coll. London
 Patel, Shyam Imperial Coll. London
 Rodriguez-Villegas, Esther Imperial Coll. London
- 10:30-12:00 FrP1A1.7
A Robust Method to Estimate Time Split in Second Heart Sound Using Instantaneous Frequency Analysis, pp. 1855-1858.
 YILDIRIM, ISA Univ. OF ILLINOIS AT CHICAGO
 Ansari, Rashid Univ. OF ILLINOIS AT CHICAGO
- 10:30-12:00 FrP1A1.8
Subband Features Based on Higher Order Statistics for ECG Beat Classification, pp. 1859-1862.
 Chen, Ying-Hsiang National Chung Cheng Univ.
 Yu, Sung-Nien National Chung Cheng Univ.
- 10:30-12:00 FrP1A1.9
ECG Data Compression Using Jacobi Polynomials, pp. 1863-1867.
 TCHIOTSOP, Daniel IUT FOTSO Victor - Univ. of Dschang
 Wolf, Didier Nancy-Univ.
 Louis-Dorr, Valerie Nancy-Univ.
 Husson, Rene Nancy-Univ.
- 10:30-12:00 FrP1A1.10
A Comparative Study of Wavelet Denoising of Surface Electromyographic Signals, pp. 1868-1871.
 Jiang, Ching-Fen I-Shou Univ.
 Kuo, Shou-Long I-Shou Univ.
- 10:30-12:00 FrP1A1.11
Spectral Characterization of Human EHG Frequency Components Based on the Extraction and Reconstruction of the Ridges in the Scalogram, pp. 1872-1875.
 TERRIEN, Jeremy Reykjavik Univ.
 Marque, Catherine Univ. of Tech. of compiegne
 Karlsson, Brynjar Reykjavik Univ.
- 10:30-12:00 FrP1A1.12
Wavelet Packet Decomposition of a New Filter -Based on Underlying Neural Activity for ERP Classification, pp. 1876-1879.
 Raiesdana, Somayeh Islamic Azad Univ. Qazvin Branch, Qazvin, IRAN
 Shamsollahi, Mohammad Bagher Sharif Univ. of Tech.
 Hashemi, Mohammad Reza Amir Kabir Univ. of Tech.
 Mohammad Rezazadeh, Iman Islamic Azad Univ.
- 10:30-12:00 FrP1A1.13
Analysis of Muscular Fatigue During Cyclic Dynamic Movement, pp. 1880-1883.
 Cao, Hua Univ. de Tech. de Compiègne
 El Hajj Dib, Imad Univ. of Tech. of Compiègne
 Antoni, Jérôme Univ. de Tech. de Compiègne
 Marque, Catherine Univ. of Tech. of compiegne
- 10:30-12:00 FrP1A1.14
Wavelet Based Approach for Posture Transition Estimation Using a Waist Worn Accelerometer, pp. 1884-1887.
 Bidargaddi, Niranjana CSIRO
 Klingbeil, Lasse CSIRO ICT Centre
 sarela, antti ilmari csiro
 Boyle, Justin CSIRO ICT Centre
 Cheung, Vivian Hoi Yee CSIRO ICT Centre
 Yelland, Catherine Princess Alexandra Hospital
 Gray, Leonard Charles Univ. of Queensland
 Karunanithi, Mohan CSIRO ICT Centre
- 10:30-12:00 FrP1A1.15
Wavelet-Based Scale-Dependent Detection of Neurological Action Potentials, pp. 1888-1891.
 Escola, Ricardo CEA Léti MINATEC
 Bonnet, Stéphane CEA Léti MINATEC
 Magnin, Isabelle INSA
 Guillemaud, Regis CEA Léti MINATEC
- 10:30-12:00 FrP1A1.16
Application of the Matching Pursuit Method in a Fetal Phonocardiographic Telemedicine System, pp. 1892-1895.
 Horvath, Csaba Budapest Univ. of Tech. & Ec.
 Úveges, Bálint Áron Peter Pazmany Catholic Univ.
 Kovacs, Ferenc Pazmany Peter Catholic Univ.
 Hosszu, Gabor Budapest Univ. of Tech. and Ec.
- 10:30-12:00 FrP1A1.17
BSeg++: A Modified Blind Segmentation Method for Ballistocardiogram Cycle Extraction, pp. 1896-1899.
 Kaminska, Bozena SIMON FRASER Univ.
 Akhbardeh, Alireza Tampere Univ. of Tech.
 Tavakolian, Kouhyar Simon Fraser Univ.

10:30-12:00		FrP1A1.18
	Wavelet Filtering Based on Mellin Transform Dedicated to Biomedical Application , pp. 1900-1903.	
	Derbel, Amira	ENIS
	KALLEL, Fathi	ENIS
	Ben HAMIDA, Ahmed	ENIS
	SAMET, Mounir	ENIS
10:30-12:00		FrP1A1.19
	EMD-Based 60-Hz Noise Filtering of the ECG , pp. 1904-1907.	
	Nimunkar, Amit	Univ. of Wisconsin-Madison
	Tompkins, Willis J.	Univ. of Wisconsin - Madison
10:30-12:00		FrP1A1.20
	Analysis of Fetal Heart Rate in Healthy and Pathological Pregnancies Using Wavelet-Based Features , pp. 1908-1911.	
	Spyridou, Kyriaki	Aristotle Univ. of Thessaloniki
	Hadjileontiadis, Leontios	Aristotle Univ. of Thessaloniki
10:30-12:00		FrP1A1.21
	Wavelet-Based Analysis of Nocturnal Snoring in Apneic Patients Undergoing Polysomnography , pp. 1912-1915.	
	Matsiki, Dimitra	Aristotle Univ. of Thessaloniki
	Deligianni, Xeni	Aristotle Univ. of Thessaloniki
	Vlachogianni-Daskalopoulou, Efi	'St. Paul' General Hospital
	Hadjileontiadis, Leontios	Aristotle Univ. of Thessaloniki
10:30-12:00		FrP1A1.22
	Electroconvulsive Therapy: A Model for Seizure Detection by a Wavelet Packet Algorithm , pp. 1916-1919.	
	Shahidi Zandi, Ali	The Univ. of British Columbia (UBC)
	Tafreshi, Reza	Texas A&M Univ.
	Dumont, Guy	Univ. of British Columbia
	Ries, Craig	Univ. of British Columbia
	MacLeod, Bernard	Univ. of British Columbia
	Puil, Ernie	Univ. of British Columbia
10:30-12:00		FrP1A1.23
	Automated Peak Decomposition of Evoked Potential Signals Using Wavelet Transform Singularity Detection , pp. 1920-1923.	
	McCooley, Conor	Royal Melbourne Institute of Tech. (RMIT) Univ.
	Kant Kumar, Dinesh	RMIT Univ.
10:30-12:00		FrP1A1.24
	Introducing a New Multi-Wavelet Function Suitable for Seng Signal to Identify Hand Motion Commands , pp. 1924-1927.	
	khezri, mahdi	sharif Univ. of Tech.
	Jahed, Mehran	Sharif Univ. of Tech.

FrP1A2	Forum 5&6
Nonlinear Dynamic Analysis of Biomedical Signals IV (Poster Session)	

10:30-12:00		FrP1A2.1
	Automatic Identification of Spike-Wave Events and Non-Convulsive Seizures with a Reduced Set of Electrodes , pp. 1928-1931.	
	Jacquín, Arnaud	Brainscope Company, Inc.
	Causevic, Elvir	Brainscope Company, Inc.
	John, E. Roy	NYU
10:30-12:00		FrP1A2.2
	Temporal Suppression of Long-Latency Click-Evoked Otoacoustic Emissions , pp. 1932-1936.	
	Verhulst, Sarah	Danish Tech. Univ.
	Harte, James M.	Danish Tech. Univ.
	Dau, Torsten	Danish Tech. Univ.
10:30-12:00		FrP1A2.3
	Obstructive Sleep Apnea Detection Using Clustering Classification of Nonlinear Features from Nocturnal Oximetry , pp. 1937-1940.	
	Álvarez, Daniel	Univ. of Valladolid
	Hornero, Roberto	Univ. of Valladolid
	Marcos, J. Victor	Univ. de Valladolid
	del Campo, Félix	Hospital del Río Hortega
	López, Miguel	Univ. of Valladolid
10:30-12:00		FrP1A2.4
	Feature Extraction of Mental Task in BCI Based on the Method of Approximate Entropy , pp. 1941-1944.	
	Wang, Lei	Hebei Univ. of Tech.
	Xu, Guizhi	Hebei Univ. of Tech.
	Wang, Jiang	TangShan Vocation and Tech. Coll.
	Yang, Shuo	Hebei Univ. of Tech.
	Yan, Weili	Hebei Univ. of Tech.
10:30-12:00		FrP1A2.5
	Assessment of Suspected Aortic Stenosis by Auto Mutual Information Analysis of Murmurs , pp. 1945-1948.	
	Ahlstrom, Christer	Linköpings Univ.
	Ask, Per	Linköpings Univ.
	Rask, Peter	Örebro Univ. Hospital
	Karlsson, Jan-Erik	County Hospital Ryhov, Jönköping
	Nylander, Eva	Faculty of health sciences
	Dahlström, Ulf	Faculty of health sciences, Linköpings Univ.
	Hult, Peter	Linköpings Univ.

- 10:30-12:00 FrP1A2.6
Modeling State Entropy of the EEG and Auditory Evoked Potentials - Hypnotic and Analgesic Interactions, pp. 1949-1952.
 Castro, Ana Faculdade de Ciências da Univ. do Porto
 Amorim, Pedro Hospital Geral de Santo António
 Nunes, Catarina S Faculdade de Ciências da Univ. do Porto
- 10:30-12:00 FrP1A2.7
Non-Linear Analysis of Intracranial Electroencephalogram Recordings with Approximate Entropy and Lempel-Ziv Complexity for Epileptic Seizure Detection, pp. 1953-1956.
 Abásolo, Daniel Univ. of Valladolid
 James, Christopher Univ. of Southampton
 Hornero, Roberto Univ. of Valladolid
- 10:30-12:00 FrP1A2.8
Non-Linear Organization Analysis of Paroxysmal Atrial Fibrillation, pp. 1957-1960.
 Alcaraz Martinez, Raul Univ. of Castilla-La Mancha
 Rieta, J. J. Valencia Univ. of Tech.
- 10:30-12:00 FrP1A2.9
Fractal Based Modelling and Analysis of Electromyography (EMG) to Identify Subtle Actions, pp. 1961-1964.
 Poosapadi Arjunan, Sridhar RMIT Univ.
 Kant Kumar, Dinesh RMIT Univ.
- 10:30-12:00 FrP1A2.10
Understanding Ageing Effects by Approximate Entropy Analysis of Gait Variability, pp. 1965-1968.
 Karmakar, Chandan Kumar The Univ. of Melbourne
 Khandoker, Ahsan Habib The Univ. of Melbourne
 Begg, Rezaul Victoria Univ.
 Palaniswami, Marimuthu The Univ. of Melbourne
 Taylor, Simon Victoria Univ.
- 10:30-12:00 FrP1A2.11
Complementary Methods for Interpreting Brain Signals: Linear versus Nonlinear Techniques, pp. 1969-1972.
 Bucolo, Maide Univ. degli Studi di Catania
 Di Grazia, Federica Univ. of Catania
 Fortuna, Luigi Univ. of Catania
 Frasca, Mattia Univ. of Catania
 Sapuppo, Francesca Univ. degli Studi di Catania
 Shannahoff-Khalsa, David Univ. of California, San Diego
- 10:30-12:00 FrP1A2.12
Dynamics Analysis of Electrogastrography Using Double-Wayland Algorithm, pp. 1973-1976.
 Matsuura, Yasuyuki Nagoya City Univ.
 Yokoyama, Kiyoko Nagoya City Univ.
 Takada, Hiroki Gifu Univ. of Medical Science
 Shimada, Katsuhiko Nagoya City Univ.
- 10:30-12:00 FrP1A2.13
Rotation Algorithm for Determining Cycle Thresholds in Real-Time Polymerase Chain Reactions, pp. 1977-1980.
 Kurnik, Ronald Roche Molecular Systems
- 10:30-12:00 FrP1A2.14
Circular Correlation Methods for the Analysis of Oscillations in Dependent Time Series, pp. 1981-1984.
 Jentsch, Uwe Tech. Univ. Ilmenau
 Ivanova, Galina Tech. Univ. Ilmenau
- 10:30-12:00 FrP1A2.15
Analysis of the Phase Locking Index for Measuring of Interdependency of Cortical Signals Recorded in the EEG, pp. 1985-1991.
 Sazonov, Andrei Vladimirovich Eindhoven Univ. of Tech.
 Ho, Chin Keong Eindhoven Univ. of Tech.
 Bergmans, Johannes Wilhelmus Maria Eindhoven Univ. of Tech.
 Arends, Johan B.A.M. Epilepsy Center Kempenhaeghe
 Griep, Paul Epilepsy Centre Kempenhaeghe
 Verbitskiy, Evgeny A. Philips Res. Lab.
 Cluitmans, Pierre J.M. Eindhoven Univ. of Tech.
 Boon, Paul Univ. Hospital Ghent, Lab. for Clinical and Experimen
- 10:30-12:00 FrP1A2.16
Analysis of Correlations in Heart Dynamics in Wake and Sleep Phases, pp. 1992-1995.
 Muñoz-Diosdado, Alejandro Inst. Pol. Nacional México
 Gálvez-Coyt, Gonzalo UPIBI, Inst. Pol. Nacional MEXICO
 Bueno-Hernández, Diana UPIBI, Inst. Pol. Nacional, MEXICO
 Reyes-Cruz, Héctor UPIBI, Inst. Pol. Nacional, MEXICO
- 10:30-12:00 FrP1A2.17
Phase Space Analysis of Event Related Potential During Episodic Memory Retrieval, pp. 1996-1999.
 Ghoshuni, Majid Islamic Azad Univ. of Mashhad Branch
 Motie Nasrabadi, Ali Shahed Univ.
 Khalilzadeh, Mohammad Ali Islamic Azad Univ. of Mashhad Branch
 Hashemi, Mohammad Reza Amir Kabir Univ. of Tech.
- 10:30-12:00 FrP1A2.18
An Investigation on Chaotic Approach to Detect Functional Gastrointestinal Disorders, pp. 2000-2003.
 Zandi Mehran, Yasaman Islamic Azad Univ. Science and Res. Branch,
 Motie Nasrabadi, Ali Shahed Univ.
 Hashemi Golpayegani, Mohammad Reza Amirkabir Univ. of Tech. (Tehran Pol.

10:30-12:00		FrP1A2.19
<i>An Algorithm for Phase-Space Detection of the P Characteristic Points</i> , pp. 2004-2007.		
Herreros López, Alberto		Univ. of Valladolid
Johansson, Rolf		Lund Univ.
Baeyens Lázaro, Enrique		Univ. of Valladolid
Carlson, Jonas		Lund Univ.
Olsson, Bertil		Lund Univ.
Perán, José Ramón		Univ. of Valladolid
10:30-12:00		FrP1A2.20
<i>A Method for Detecting Nonlinear Determinism in Normal and Epileptic Brain EEG Signals</i> , pp. 2008-2011.		
Meghdadi, Amir Hossein		Univ. of Manitoba
Fazel-Rezai, Reza		Univ. of Manitoba
Aghakhani, Yahya		Univ. of Manitoba
10:30-12:00		FrP1A2.21
<i>Shape-Based Matching of ECG Recordings</i> , pp. 2012-2018.		
Syeda-Mahmood, Tanveer		IBM Almaden Res. Center
Beymer, David		IBM Almaden Res. Center
Wang, Fei		IBM Almaden Res. Center
10:30-12:00		FrP1A2.22
<i>A New Multi Criteria Classification Approach in a Multi Agent System Applied to SEEG Analysis</i> , pp. 2019-2022.		
kinie, abel		Univ. rennes 1, iut de saint malo
Ndiaye, mamadou		Univ. rennes 1, iut saint malo
MONTOIS, JEAN JACQUES		Univ. rennes 1, IUT de Saint Malo
Jacquet, Yann		Univ. de Rennes 1, IUT de Saint Malo

FrP1B1 Forum 5&6

MRI: Novel Applications II (Poster Session)

10:30-12:00		FrP1B1.1
<i>Exploratory Analysis of Functional Connectivity Network in Acupuncture Study by a Graph Theory Mode</i> , pp. 2023-2026.		
Bai, Lijun		Life Science Res. Center, Xidian Univ.
Tian, Jie		Inst. of Automation, Chinese Acad. of Sciences
Qin, Wei		CASIA
Pan, Xiaohong		Beijing Normal Univ.
10:30-12:00		FrP1B1.2
<i>Texture Measure from Low Resolution MR Images to Determine Trabecular Bone Integrity in Osteoporosis</i> , pp. 2027-2030.		
Tameem, Hussain		Univ. of California Los Angeles
Selva, Luis		Univ. of California Los Angeles
Sinha, Usha		UCLA
10:30-12:00		FrP1B1.3
<i>Prognostic Value of Brain Tissue Pathological Changes in Patients with Clinically Isolated Syndromes (CIS) Suggestive of Multiple Sclerosis Using Magnetization Transfer Ratio (MTR)</i> , pp. 2031-2033.		
fooladi, masumeh		medical sciences/Univ. tehran
Riyahi-Alam, Nader		School of Medicine, Medical Sciences/Univ. of Tehran
hairchian, mohammad hosein		medical sciences/Univ. tehran
firuznia, kavos		medical sciences/Univ. tehran
Oghabian, Mohammad Ali		Tehran Univ. of Medical Sciences
shakiba, madjid		medical sciences/Univ. tehran
Rafie, Behrouz		Tehran Univ. of Medical Sciences
Bakhtiary, Morteza		Tehran Univ. of Medical Sciences (TUMS)
10:30-12:00		FrP1B1.4
<i>A Study of Femoral Artery by Twin Drivers in Magnetic Resonance Interference Elastography</i> , pp. 2034-2037.		
Zheng, Ying		The Univ. of Hong Kong
Chan, Queenie C. C.		Philips Electronics Hong Kong Limited
Li, Geng		The Univ. of Hong Kong
Lam, Edmund Y.		Univ. of Hong Kong
Yang, Edward		Univ. of Hong Kong
10:30-12:00		FrP1B1.5
<i>Fat-Saturated Diffusion-Weighted Imaging of the Rat Pelvis Using Three-Dimensional MP-RAGE MR Sequence</i> , pp. 2038-2041.		
NUMANO, Tomokazu		Tokyo Metropolitan Univ.

FrP1B2

Imaging Hardware (Poster Session)

10:30-12:00		FrP1B2.1
<i>3D-Gradient Coil Structures for MRI Designed Using Fuzzy Membership Functions</i> , pp. 2042-2045.		
Sanchez Lopez, Hector		The Univ. of Queensland
Liu, Feng		The Univ. of Queensland
Trakic, Adnan		The Univ. of Queensland
Weber, Ewald		The Univ. of Queensland
Crozier, Stuart		The Univ. of Queensland

10:30-12:00		FrP1B2.2
Optical Cardiac and Respiratory Device for Synchronized MRI on Small Animal , pp. 2046-2049.		
Rengle, Adrian		Univ. de Lyon, Univ. Lyon 1, INSA-Lyon
Baboi, Loredana Maria		Univ. de Lyon, Univ. Lyon 1, INSA-Lyon
Saint-Jalmes, Hervé		Univ. de Lyon, Univ. Lyon 1
Sablong, Raphaël		Univ. Claude Bernard Lyon 1
BEUF, olivier		Univ. de Lyon, Univ. Lyon 1, INSA-Lyon
10:30-12:00		FrP1B2.3
Biopsy Needle As MRE Driver for Tumor Detection , pp. 2050-2052.		
Zhao, Xiaoguang		The Univ. of Hong Kong.
Zheng, Ying		The Univ. of Hong Kong
Chan, Queenie C. C.		Philips Electronics Hong Kong Limited
Yang, Xifei		The Univ. of Hong Kong.
Li, Geng		The Univ. of Hong Kong
Yang, Edward		Univ. of Hong Kong

FrP1B3	Forum 5&6
MR Image Reconstruction and Processing (Poster Session)	

10:30-12:00		FrP1B3.1
A Modified View Ordering for Artifact Reduction in MRI , pp. 2053-2056.		
Maclaren, Julian R.		Univ. of Canterbury
Bones, P. J.		Univ. of Canterbury
Millane, R. P.		Univ. of Canterbury
Watts, Richard		Univ. of Canterbury
10:30-12:00		FrP1B3.2
Cardiac Cine MR Reconstruction from Partial K-Space Using the Notion of Analytic Image , pp. 2057-2060.		
YANKAM NJIWA, -		Univ.
HIBA, -		Univ.
ZHU, Yuemin		-
10:30-12:00		FrP1B3.3
Weighted Hinf Optimization Approach to Parallel MR Image Reconstruction , pp. 2061-2064.		
CHEN, Zhaolin		Monash Univ.
Zhang, Jingxin		Monash Univ.
Chai, Li		Hangzhou Dianzi Univ.
10:30-12:00		FrP1B3.4
Determination of Fiber Orientation in MRI Diffusion Tensor Imaging Based on Higher-Order Tensor Decomposition , pp. 2065-2068.		
Ying, Lei (Leslie)		Univ. of Wisconsin
Zou, Yi Ming		Univ. of Wisconsin - Milwaukee
Klemer, David		Univ. of Wisconsin - Milwaukee
Wang, Jiun-Jie		Chang Gung Univ.

FrP1B4	Forum 5&6
MR Image Processing and Analysis III (Poster Session)	

10:30-12:00		FrP1B4.1
An a Contrario Approach for Change Detection in 3D Multimodal Images: Application to Multiple Sclerosis in MRI , pp. 2069-2072.		
Rousseau, François		CNRS - LSIIT
Faisan, Sylvain		LSIIT
Heitz, Fabrice		LSIIT
Armspach, Jean-Paul		LINC
Chevalier, Yves		Centre Hospitalier
Blanc, Frederic		LINC
de Seze, Jerome		LINC
Rumbach, Lucien		LINC
10:30-12:00		FrP1B4.2
Clinical Software for the Assessment of Trabecular Bone Disease in Distal Radius Based on a Magnetic Resonance Structural Analysis , pp. 2073-2076.		
Alberich-Bayarri, Angel		Univ. Pol. de València
Nieto-Charques, Laura		Univ. Pol. de València
Moratal, David		Univ. Pol. de València
Martí-Bonmatí, Luis		Hospital Quirón-Valencia
Vallés-Lluch, Ana		Univ. Pol. de València
Rieta, J. J.		Valencia Univ. of Tech.
10:30-12:00		FrP1B4.3
Comparison of Two Strategies of Background-Accommodation: Influence on the Metabolite Concentration Estimation from in Vivo Magnetic Resonance Spectroscopy Data , pp. 2077-2080.		
Cudalbu, Cristina		Univ. de Lyon, Univ. Claude Bernard Lyon1
Bucur, Adriana		Univ. de Lyon, Univ. Claude Bernard Lyon1
Graveron-Demilly, Danielle		Univ. de Lyon, Univ. Claude Bernard LYON1, CPE
BEUF, olivier		Univ. de Lyon, Univ. Lyon 1, INSA-Lyon
Cavassila, Sophie		Univ. Lyon; Univ. Lyon 1
10:30-12:00		FrP1B4.4
Elimination of RF Inhomogeneity Effects in Segmentation , pp. 2081-2084.		
Agus, Onur		Bogazici Univ.
Ozkan, Mehmed		Bogazici Univ.
Aydin, Kubilay		Istanbul Univ.

- 10:30-12:00 FrP1B4.5
Segmentation of Brain Image Volumes Using the Data List Management Library, pp. 2085-2088.
 Roman-Alonso, Graciela Univ. Autónoma Metropolitana-Iztapalapa
 Jimenez-Alaniz, Juan Ramon Univ. Autonoma Metropolitana
 Buenabad-Chavez, Jorge Centro de Investigacion y de Estudios Avanzados del IPN
 Castro-Garcia, Miguel Alfonso Univ. Autonoma Metropolitana-Iztapalapa
 Vargas-Rodriguez, Abraham H. CINVESTAV-IPN
- 10:30-12:00 FrP1B4.6
Optimal Clustering of Kinetic Patterns on Malignant Breast Lesions: Quantitative Comparison between K-Means Clustering and Three-Time-Points Method in Dynamic Contrast-Enhanced MRI, pp. 2089-2093.
 Lee, Sang Ho Seoul National Univ. Coll. of Medicine
 Kim, Jong Hyo Seoul National Univ. Coll. of Medicine
 Kim, Kwang Gi Seoul National Univ. Coll. of Medicine
 Park, Jung Sun Seoul National Univ. Coll. of Medicine
 Park, Sang Joon Seoul National Univ. Coll. of Medicine
 Moon, Woo Kyung Seoul National Univ. Hospital
- 10:30-12:00 FrP1B4.7
The Development of Brain Connectivity Browser by Tractography of QBI, pp. 2094-2097.
 Chao, Yi-Ping National Taiwan Univ.
 Yang, Chia-Yen National Yang-Ming Univ.
 Cho, Kuan-Hung National Taiwan Univ.
 Yeh, Chun-Hung National Yang-Ming Univ.
 Chou, Kun-Hsien National Yang-Ming Univ.
 Chen, Jyh-Horng National Taiwan Univ.
 Lin, Ching-Po National Yang-Ming Univ.
- 10:30-12:00 FrP1B4.8
Robustness of Local Binary Patterns in Brain MR Image Analysis, pp. 2098-2101.
 Unay, Devrim Philips Res. Europe
 Ekin, Ahmet Philips Res. Europe
 Cetin, Mujdat Sabanci Univ.
 Jasinski, Radu Philips Res. Europe
 Ercil, Aytul Sabanci Univ.
- 10:30-12:00 FrP1B4.9
Robust Nonparametric Segmentation of Infarct Lesion from Diffusion-Weighted MR Images, pp. 2102-2105.
 Hevia-Montiel, Nidiyare Ingenieria Eléctrica, Univ. Autónoma Metropolitana-Iztapalapa
 Jimenez-Alaniz, Juan Ramon Univ. Autonoma Metropolitana
 Medina, Veronica Univ. Autonoma Metropolitana
 Yanez-Suarez, Oscar Univ. Autonoma Metropolitana
 Rosso, Charlotte CNRS-UPR640 LENA
 Samson, Yves La Salpetriere Hospital
 Baillet, Sylvain CNRS UPR640--LENA
- 10:30-12:00 FrP1B4.10
Improved Bulk Rotation Detection and Correction in MRI, pp. 2106-2109.
 Bones, P. J. Univ. of Canterbury
 Maclaren, Julian Univ. of Canterbury
- 10:30-12:00 FrP1B4.11
Longitudinal, Regional and Deformation-Specific Corpus Callosum Shape Analysis for Multiple Sclerosis, pp. 2110-2113.
 Ishaq, Omer Simon Fraser Univ.
 Hamameh, Ghassan Simon Fraser Univ.
 Tam, Roger Univ. of British Columbia
 Traboulsee, Anthony Univ. of British Columbia, Multiple Sclerosis/Magnetic Res.
- 10:30-12:00 FrP1B4.12
Voxelized Model of Interstitial Transport in Nervous Tissue Following Direct Infusion into White Matter, pp. 2114-2117.
 Kim, Jung Hwan Univ. of Florida
 Mareci, Thomas Univ. of Florida
 Sarntinoranont, Malisa Univ. of Florida
- 10:30-12:00 FrP1B4.13
Evaluation of Alzheimer's Disease by Analysis of MR Images Using Multilayer Perceptrons and Kohonen SOM Classifiers As an Alternative to the ADC Maps, pp. 2118-2121.
 dos Santos, Wellington Univ. de Pernambuco
 Souza, Ricardo Univ. Federal de Pernambuco
 Santos Filho, Plinio North Carolina State Univ.
- 10:30-12:00 FrP1B4.14
Influence of Intermittent Compression Cuff Design on Interface Pressure and Calf Deformation: Experimental Results, pp. 2122-2125.
 John, Gareth William Cardiff Univ.
 Narracott, Andrew James Univ. of Sheffield
 Morris, Rhys John Univ. Hospital of Wales
 Woodcock, John P. Cardiff Univ.
 Lawford, Patricia Veronica Univ. of Sheffield
 Hose, David R. Univ. of Sheffield

10:30-12:00 FrP1B4.15
Impact of Realignment on Spinal Functional MRI Time Series, pp. 2126-2129.
 Cohen-Adad, Julien Univ. of Montreal - INSERM
 Piché, Mathieu Univ. of Montreal
 Rainville, Pierre Univ. of Montreal
 Benali, Habib INSERM - Univ. Pierre et Marie Curie
 Rossignol, Serge Univ. of Montreal

FrP1B5 Forum 5&6
Ultrasonic Image Processing (Poster Session)

10:30-12:00 FrP1B5.1
Ultrasound Monitoring of Temperature Changes in Liver Tissue During Laser Thermotherapy: 10°C Intervals, pp. 2130-2133.
 Mokhtari-Dizaji, Manijhe Tarbiat Modares Univ.
 Gorjiara, Tina Tarbiat Modares Univ. Medical Imaging Center, ImamKhomeini
 Ganaeati, Hossein Tehran Medical Sciences Univ. EMMAM Khomeini Hospital
 Kalbasi, Mehran Tarbiat Modares Univ.

10:30-12:00 FrP1B5.2
Automatic Classification of Focal Lesions in Ultrasound Liver Images Using Principal Component Analysis and Neural Networks, pp. 2134-2137.
 Balasubramanian, Deepalakshmi Anna Univ.
 srinivasan, poonguzhali Anna Univ.
 Gurubharan, Ravindaran Anna Univ.

10:30-12:00 FrP1B5.3
Reduced Speckle Noise on Medical Ultrasound Images Using Cellular Neural Network, pp. 2138-2141.
 Park, HyunKyung Graduate school of Informaiton, ProductionandSystems,Waseda Univ.
 Nishimura, Toshihiro Waseda Univ.

10:30-12:00 FrP1B5.4
Suppression of Gradient across Seam Line Using a Smoothing Filter in Spatially Compounded Ultrasonic Diagnostic Images, pp. 2142-2145.
 Choi, Myoung Hwan Kangwon National Univ.

10:30-12:00 FrP1B5.5
Calibrating an Ultrasonic Computed Tomography System Using a Time-Of-Flight Based Positioning Algorithm, pp. 2146-2149.
 Filipik, Adam Brno Univ. of Tech.
 Peterlik, Igor Faculty of Informatics, Masaryk Univ. Brno
 Hemzal, Dusan Masaryk Univ. Brno
 Jan, Jiri Brno Univ. of Tech.
 Jirik, Radovan Brno Univ. of Tech.
 zapf, michael Forschungszentrum Karlsruhe
 ruiter, nicole Forschungszentrum Karlsruhe

10:30-12:00 FrP1B5.6
A Portable Measuring System for Cross-Sectional Ultrasound Images Using Spatial Compounding and Edge Sharpening, pp. 2150-2154.
 Tsubai, Masayoshi National Inst. of (AIST)
 Fukumoto, Kiyotaka Kyushu Univ.
 Fukuda, Osamu National Inst. of AIST
 Muraki, Satoshi Kyushu Univ.
 Ueno, Naohiro National Inst. of Advanced Industrial Science and Tech.

FrP1B6 Forum 5&6
Tissue Motion and Vascular Ultrasound (Poster Session)

10:30-12:00 FrP1B6.1
Two-Dimensional Least-Squares Estimation for Motion Tracking in Ultrasound Elastography, pp. 2155-2158.
 Basarab, Adrian INSA-Lyon
 Gueth, Pierre INSA-Lyon
 Liebgott, Hervé Univ. Lyon 1
 Delachartre, Philippe INSA-Lyon

10:30-12:00 FrP1B6.2
Simulation of Ultrasound Radio-Frequency Signals in Deformed Tissue for Validation of 2D Motion Estimation with Sub-Sample Accuracy, pp. 2159-2162.
 Goksel, Orcun Univ. of British Columbia
 Zahiri-Azar, Reza Univ. of British Columbia
 Salcudean, Septimiu E. Univ. of British Columbia

10:30-12:00 FrP1B6.3
A Mathematical Model of the Mechanical Deformation of the Carotid Artery Wall and Its Application to Clinical Data, pp. 2163-2166.
 Stoitsis, John Inst. of Communication
 Golemati, Spyretta National Tech. Univ. of Athens
 Bastouni, Efi National Tech. Univ. of Athens
 Nikita, Konstantina National Tech. Univ. of Athens

10:30-12:00 FrP1B6.4
Using Reconstructed IVUS Images for Coronary Plaque Classification, pp. 2167-2170.
 Caballero Espinosa, Karla Lizbeth Autonomous Univ. of Barcelona
 Barajas Zamora, Joel Autonomous Univ. of Barcelona
 Radeva, Petia Autonomous Univ. of Barcelona

10:30-12:00		FrP1B6.5
	Media Thickness Measurement of the Common Carotid Artery , pp. 2171-2174.	
	Loizou, Christos	Intercollege
	Pattichis, Constantinos	Univ. of Cyprus
	Pantziaris, Marios	The Cyprus Inst. of Neurology and Genetics
	Nicolaides, Andrew	Imperial Coll.
	Georgiou, Niki	Vascular Screening and Diagnostic Center
	Kyriacou, Efthymoulos	Univ. of Cyprus
10:30-12:00		FrP1B6.6
	Design of a High Frequency Array Based Photoacoustic Microscopy System for Micro-Vascular Imaging , pp. 2175-2178.	
	Bitton, Rachel	Univ. of Southern California
	Zemp, Roger	Washington Univ.
	Yen, Jesse	Univ. of Southern California
	Wang, LiHong	Washington Univ.
	Shung, K. Kirk	Univ. of Southern California

FrP1B7	Forum 5&6
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Ultrasonography : Miscellaneous (Poster Session)	
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Chair: Saijo, Yoshifumi	Inst. of Development Aging and Cancer, TohokuUniversity
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10:30-12:00		FrP1B7.1
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	Preliminary Investigation of Nonlinear Dual Frequency Mixing Technique for the Estimation of the Nonlinear Parameter B/A , pp. 2179-2182.	
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	Pasovic, Mirza	Univ. Medical Center Rotterdam
	Cachard, Christian	Univ. Lyon 1
	Basset, Olivier	Univ. Lyon1, INSA-Lyon, CNRS UMR 5220, INSERM U630.

10:30-12:00		FrP1B7.2
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	A Non-Linear Ultrasonic Scattering Approach for Micro Bubble Concentration Quantification , pp. 2183-2186.	
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	Mari, Jean Martial	Univ. of Oxford
	Hibbs, Kathryn	Univ. of Oxford
	Tang, Mengxing	Imperial Coll. London

10:30-12:00		FrP1B7.3
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	Ultrasonic Renal-Stone Tracking with Mesh Regularization , pp. 2187-2190.	
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	Tsao, Jenho	National Taiwan Univ.
	He, Jia-Hong	National Taiwan Univ.

FrP1C1	Forum 5&6
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Instrumentation and Systems for Diagnosis and Clinical Management II (Poster Session)	
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Chair: SCHURR, MARC O.	NOVINEON
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10:30-12:00		FrP1C1.1
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	Study of the Ballistocardiogram Signal in Life Detection System Based on Radar , pp. 2191-2194.	
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	Lu, Guohua	Fourth Military Medical Univ.
	Wang, Jianqi	Fourth Military Medical Univ.
	Yue, Yu	Fourth Military Medical Univ.
	Jing, Xijing	Fourth Military Medical Univ.

10:30-12:00		FrP1C1.2
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	Investigation of Catheter Curvature and Genetic Algorithms in Conductance Catheter Optimization , pp. 2195-2198.	
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	Thajijam, Chanchai	Univ. of Tasmania
	Gale, Timothy John	Univ. of Tasmania

10:30-12:00		FrP1C1.3
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	Evaluation of Novel ECG Signal Processing on Quantification of Transient Ischemia and Baseline Wander Suppression , pp. 2199-2202.	
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	Kostic, Marko	Signalife, Inc.
	Fakhar, Sina	Signalife, Inc.
	Foxall, Tom	Signalife, Inc.
	Drakulic, Budimir	Signalife, Inc.
	Krucoff, Mitchell	Duke Univ. School of Medicine

10:30-12:00		FrP1C1.4
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	Computer Simulation Tool for Predicting Sound Propagation in Air-Filled Tubes with Acoustic Impedance Discontinuities , pp. 2203-2206.	
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	Albors, Gabriel O.	Univ. of Puerto Rico - Mayagüez
	Kyle, Aaron M.	Purdue Univ.
	Wodicka, George R.	Purdue Univ.
	Juan, Eduardo J.	Univ. of Puerto Rico - Mayagüez

10:30-12:00		FrP1C1.5
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	Nadi Tarangini: A Pulse Based Diagnostic System , pp. 2207-2210.	
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	Joshi, Aniruddha	IIT Bombay
	kulkarni, Anand	Inst. of Chemical Tech.
	Chandran, Sharat	IIT Bombay
	jayaraman, Valadi	National Chemical Lab.
	Kulkarni, Bhaskar	National Chemical Lab.

10:30-12:00		FrP1C1.6
Detection of Diabetic Neuropathy Using Blood Volume Ratio of Finger and Toe by PPG , pp. 2211-2214.		
Kim, Deok Won	Yonsei Univ. Coll. of Medicine	
Kim, Sung Woo	Yonsei Univ. Coll. of Medicine	
Kim, Soo chan	Hankyong National Univ.	
Nam, Ki Chang	National Inst. of Advanced Industrial Science and Tech.	
Kang, Eun Seok	Yonsei Univ. Coll. of Medicine	
Im, Jae Jung	Chonbuk National Univ.	
10:30-12:00		FrP1C1.7
A Novel Biomagnetic Instrumentation with Four Magnetoresistive Sensors to Evaluate Gastric Motility , pp. 2215-2218.		
Paixão, Fabiano Carlos	Univ. Estadual Paulista - UNESP	
Moraes, Rogério	Univ. Estadual Paulista - Unesp	
Stelzer, Murilo	Unesp	
Corá, Luciana	IBB - Univ. Estadual Paulista	
Américo, Madileine	FMRP - Univ. of Sao Paulo	
Andreis, Uilian	Unesp	
Oliveira, Ricardo Brandt	Univ. de São Paulo (USP)	
Baffa, Oswaldo	FFCLRP-Univ. of Sao Paulo	
Miranda, José Ricardo A	IBB - Univ. Estadual Paulista	
10:30-12:00		FrP1C1.8
Development of Cold Light Indirect Ophthalmoscopic Video System for Sharing Stereopsis , pp. 2219-2222.		
Kong, Hyoun-Joong	Seoul National Univ.	
Cha, Jae Pyeong	Graduate school, Seoul National Univ.	
Seo, Jong Mo	Dongguk Univ. Ilsan Hospital	
Hwang, Jeong Min	Seoul National Univ. School of Medicine	
Kim, Hee Chan	Seoul National Univ.	
10:30-12:00		FrP1C1.9
Development of Lead-Free (Bi1/2Na1/2)BaTiO3 Piezoelectric Ceramics for Clinical Applications , pp. 2223-2226.		
Rodriguez-Ruiz, Roberto	Centro de Investigacion y de Estudios Avanzados del IPN	
Suaste-Gomez, Ernesto	Centro de Investigacion y de Estudios Avanzados del IPN	
10:30-12:00		FrP1C1.10
A Novel Ultrasonic Thermo-therapy Instrument , pp. 2227-2229.		
zhang, zi	Guilin Univ. of Electronic Tech.	
Huang, Tinglei	Guilin Univ. of Electronic Tech.	
10:30-12:00		FrP1C1.11
Real-Time Detection of Respiratory Activity Using an Inertial Measurement Unit , pp. 2230-2233.		
Gollee, Henrik	Univ. of Glasgow	
Chen, Wei	Univ. of Glasgow	
10:30-12:00		FrP1C1.12
A Programmable System of Functional Electrical Stimulation (FES) , pp. 2234-2237.		
Velloso, José Braconnot	Rio de Janeiro Federal Univ.	
Souza, Marcio N.	Federal Univ. of Rio de Janeiro	
10:30-12:00		FrP1C1.13
Monitoring Cole-Cole Parameters During Haemodialysis (hd) , pp. 2238-2241.		
Surkhi, Omar	Tech. Univ. of Catalonia	
10:30-12:00		FrP1C1.14
Acid Deprotection of Covalently Immobilized Peptide Probes on Glass Slides for Peptide Microarrays , pp. 2242-2246.		
EL KHOURY, Graziella	Ec. Centrale de Lyon - Lyon Nanotechnology Inst.	
Laurenceau, Emmanuelle	Ec. Centrale de Lyon	
Dugas, Vincent	Ec. Normale Supérieure de Lyon	
Chevolot, Yann	Ec. Centrale de Lyon	
Mérieux, Yves	Etablissement Français du Sang - EFS	
Duclos, Marie-Christine	Univ. Claude Bernard-Lyon1	
Souteyrand, Eliane	Ec. Centrale de Lyon	
Rigal, Dominique	Etablissement Français du Sang - EFS	
Wallach, Jean	Univ. Claude Bernard-Lyon1	
Cloarec, Jean-Pierre	Ec. centrale de Lyon / CNRS	
FrP1C2		Forum 5&6
Biological and Biochemical Sensors, Materials II (Poster Session)		
Co-Chair: Laureyn, Wim		IMEC
10:30-12:00		FrP1C2.1
Screening for the Effects of Antiepileptic Drugs on Short Term Plasticity Using a Time Efficient Bioassay , pp. 2247-2252.		
Gholmieh, Ghassan	CHLA	
Courellis, Spiros	Univ. of Southern California	
Chen, Lan, Lan S. Chen	Childrens Hospital Los Angeles	
10:30-12:00		FrP1C2.2
Nano Fabrication of Conducting Polymers for NO Gas by Dip Pen Nanolithography , pp. 2253-2256.		
Lu, Hui-Hsin	National Taiwan Univ.	
Lin, Chii-Wann	National Taiwan Univ.	
Hsiao, Tzu-Chien	National Chiao Tung Univ.	

10:30-12:00		FrP1C2.3
Nanostructured Thin Films for the Development of Piezoelectric Immunosensors , pp. 2257-2260.		
Pastorino, Laura		Univ. of Genova
Caneva Soumetz, Federico		Univ. of Genova
Ruggiero, Carmelina		Univ. of Genova
10:30-12:00		FrP1C2.4
Improving Bioassay Sensitivity for Neurotoxins Detection Using Volterra Based Third Order Nonlinear Analysis , pp. 2261-2264.		
Gholmieh, Ghassan		CHLA
Courellis, Spiros		Univ. of Southern California
Marmarelis, Vasilis		Univ. of Southern California
Baudry, Michel		Univ. of Southern California
Berger, Theodore		Univ. of Southern California
Chen, Lan, Lan S. Chen		Childrens Hospital Los Angeles
10:30-12:00		FrP1C2.5
Investigating New BioMEMS Techniques for Early Detection of Osteoporosis , pp. 2265-2268.		
Singh, Kanika		Indian Inst. of Tech. Delhi & Pusan National University,
Kim, Kyung Chun		MEMS/NANO Fabrication Center, Pusan National Univ.

FrP1C3	Forum 5&6
Wireless Biomedical Sensors, Body Sensor Networks and Telemetric Systems II (Poster Session)	

Chair: Noury, Norbert		Univ. Joseph Fourier Grenoble
10:30-12:00		FrP1C3.1
Data Acquisition System for Doppler Radar Vital-Sign Monitor , pp. 2269-2272.		
Vergara, Alexander		Univ. of Hawaii at Manoa
Lubecke, Victor		Univ. of Hawaii Manoa
10:30-12:00		FrP1C3.2
A 13.56MHz Short Range Telemetry Link for the Monitoring of Incubated Cell Cultures , pp. 2273-2276.		
Walia, Anoop		Imperial Coll. London
Drakakis, Emmanuel M.		Imperial Coll.
10:30-12:00		FrP1C3.3
Indoor Patient Position Estimation Using Particle Filtering and Wireless Body Area Networks , pp. 2277-2280.		
Ren, HongLiang		The Chinese Univ. of Hong Kong
Meng, Max Q.-H.		The Chinese Univ. of Hong Kong
Xu, Lisheng		The Chinese Univ. of Hong Kong
10:30-12:00		FrP1C3.4
Measurement of Vibrations & Evaluation of Protective Gloves for Work with Hand-Held Power Tools in Industrial Settings , pp. 2281-2284.		
Milosevic, Matija		Ryerson Univ.
Valter McConville, Kristiina M.		Ryerson Univ.
10:30-12:00		FrP1C3.5
Activity Energy Expenditure Assessment System Based on Activity Classification Using Multi-Site Triaxial Accelerometers , pp. 2285-2287.		
Kim, Dongwoo		Graduate School, Seoul National Univ. Seoul, Korea
Kim, Hee Chan		Seoul National Univ.
10:30-12:00		FrP1C3.6
Wearable FPGA Based Wireless Sensor Platform , pp. 2288-2291.		
Ahola, Tom M.		Nokia Res. Center
Korpinen, Pekka		Nokia Res. Center
Rakkola, Juha		Nokia Res. Center
Ramo, Teemu		Nokia
Salminen, Jukka		Nokia
Savolainen, Jari		Nokia Res. Center
10:30-12:00		FrP1C3.7
Energy-Efficient Human Body Communication Receiver Chipset Using Wideband Signaling Scheme , pp. 2292-2295.		
Song, Seong-Jun		KAIST

FrP1C4	Forum 5&6
Sensor Based Systems for Monitoring III (Poster Session)	

10:30-12:00		FrP1C4.1
LED Power Reduction Trade-Offs for Ambulatory Pulse Oximetry , pp. 2296-2299.		
Aguilar Pelaez, Eduardo		Imperial Coll. London
Rodriguez-Villegas, Esther		Imperial Coll. London
10:30-12:00		FrP1C4.2
Non-Contact Cardiopulmonary Sensing with a Baby Monitor , pp. 2300-2302.		
Hafner, Noah		Univ. of Hawaii
Mostafanezhad, Isar		Univ. of Hawaii at Manoa
Lubecke, Victor		Univ. of Hawaii Manoa
Boric-Lubecke, Olga		Univ. of Hawaii Manoa
Host-Madsen, Anders		Univ. of Hawaii

10:30-12:00		FrP1C4.3
	<i>Nonintrusive Biosignal Measurement System in a Vehicle</i> , pp. 2303-2306.	
	Lee, Haet Bit	Seoul National Univ.
	Choi, Jong Min	Seoul National Univ.
	Kim, Jung Soo	Seoul National Univ.
	Kim, Yun Seong	Seoul National Univ.
	Baek, Hyun Jae	Seoul National Univ.
	Ryu, Myung Suk	ABRC
	Son, Ryang Hee	Yun Sei Univ.
	Park, Kwang S.	Seoul National Univ.
10:30-12:00		FrP1C4.4
	<i>A New Venous Infusion Pathway Monitoring System</i> , pp. 2307-2310.	
	Maki, Hiromichi	International Trinity Coll.
	Yonezawa, Yoshiharu	Hiroshima Inst. of Tech.
	Ogawa, Hidekuni	Hiroshima Inst. of Tech.
	Ninomiya, Ishio	Hiroshima International Univ.
	Sata, Koji	Shakaihoken Shimonoseki Kousei Hospital
	Hamada, Shingo	Shakaihoken Shimonoseki Kousei Hospital
	Caldwell, Morton	Caldwell Biomedical Electronics
10:30-12:00		FrP1C4.5
	<i>A Fast Algorithm to Track Changes of Direction of a Person Using Magnetometers</i> , pp. 2311-2314.	
	Fleury, Anthony	Univ. Joseph Fourier
	Noury, Norbert	Univ. Joseph Fourier Grenoble
	Vuillermé, Nicolas	UMR CNRS 5525
10:30-12:00		FrP1C4.6
	<i>Implementation of Accelerometer Sensor Module and Fall Detection Monitoring System Based on Wireless Sensor Network</i> , pp. 2315-2318.	
	lee, youngbum	Yonsei Univ.
	Kim, Jinkwon	Yonsei Univ.
	son, muntak	edigitalmed
	Lee, Myounggho	Yonsei Univ.
10:30-12:00		FrP1C4.7
	<i>Personal, Non-Invasive Dosimetry for Radio-Frequency Human Exposure Assessment</i> , pp. 2319-2322.	
	ISKRA, STEVE	RMIT Univ.
	McKenzie, Ray	RMIT Univ.
	Cosic, Irena	RMIT Univ.
10:30-12:00		FrP1C4.8
	<i>ENDOCOM: Abdominal Aortic Aneurysm Test Bench for in Vitro Simulation</i> , pp. 2323-2326.	
	Mazeyrat, Johan	Univ. Pierre et Marie Curie - ParisVI - france
	ROMAIN, Olivier	UPMC
	Garda, Patrick	Univ. Pierre et Marie Curie - Paris 6
	Lagrée, Pierre-Yves	UPMC
	Destrade, Michel	CNRS / Univ. Pierre et Marie Curie
	KAROUIA, Mourad	Inst. de Cardiologie Pitié-Salpêtrière, APHP
	LEPRINCE, PASCAL	Univ. PIERRE ET MARIE CURIE, AP-HP, HOPITAL PITIE-SALPETRIE
10:30-12:00		FrP1C4.9
	<i>A Clinical Evaluation of a Remote Mobility Monitoring System Based on SMS Messaging</i> , pp. 2327-2330.	
	Dalton, Anthony	National Univ. of Galway
	Ni Scanáil, Cliódhna	Department of Electronic and Computer Engineering
	Carew, Sheila	TBA
	Lyons, Declan	Mid-Western Regional Hospital, Limerick
	ÓLaighin, Gearóid	National Univ. of Ireland, Galway
10:30-12:00		FrP1C4.10
	<i>Powering Implantable Telemetry Devices from Localized Magnetic Fields</i> , pp. 2331-2335.	
	McCormick, Daniel	Uniniversity of Auckland
	Hu, Aiguo Patrick	Uniniversity of Auckland
	Nielsen, Poul	Univ. of Auckland
	Malpas, Simon	Uniniversity of Auckland
	Budgett, David	Auckland Univ.
10:30-12:00		FrP1C4.11
	<i>Using the Changes in Hydrostatic Pressure and Pulse Transit Time to Measure Arterial Blood Pressure</i> , pp. 2336-2337.	
	Poon, Carmen CY	The Chinese Univ. of Hong Kong
	Zhang, Yuan-Ting	The Chinese Univ. of Hong Kong
10:30-12:00		FrP1C4.12
	<i>Low Profile Harmonic Radar Transponder for Tracking Small Endangered Species</i> , pp. 2338-2341.	
	Kiriazzi, John	Univ. of Hawaii at Manoa
	Nakakura, Jayson	Univ. of Hawaii
	Hall, Kevin	Univ. of Hawaii
	Hafner, Noah	Univ. of Hawaii
	Lubecke, Victor	Univ. of Hawaii Manoa
10:30-12:00		FrP1C4.13
	<i>Guidelines for Calibration and Drift Compensation of a Wearable Device with Rate-Gyroscopes and Accelerometers</i> , pp. 2342-2345.	
	Giansanti, Daniele	Istituto Superiore di Sanitf
	Maccioni, Giovanni	Istituto Superiore di Sanitf
	Macellari, Velio	Istituto Superiore di Sanitf

10:30-12:00		FrP1C4.14
<i>Inductive Phase Shift Spectroscopy for Volumetric Brain Edema Detection: An Experimental Simulation</i> , pp. 2346-2349.		
González, César A		Univ. del Ejército y Fuerza Aérea
Rojas, Rafael		UAM, Iztapalapa.
Villanueva, Cleva		Intituto Pol. Nacional
Rubinsky, Boris		Univ. of California at Berkeley
10:30-12:00		FrP1C4.15
<i>A Novel Photodiode for Reflectance Pulse Oximetry in Low-Power Applications</i> , pp. 2350-2353.		
Haahr, Rasmus G		Tech. Univ. of Denmark
Duun, Sune		Tech. Univ. of Denmark
Thomsen, Erik V		Tech. Univ. of Denmark
Birkelund, Karen		Tech. Univ. of Denmark
10:30-12:00		FrP1C4.16
<i>A New Method for Determining the Servo Reference Value (Vo) of the Volume-Compensation Method</i> , pp. 2354-2356.		
Tanaka, Shinobu		Kanazawa Univ.
Nogawa, Masamichi		Kanazawa Univ.
Sawanoi, Yukiya		Kanazawa Univ.
Yamakoshi, Takehiro		Kanazawa Univ.
Yamakoshi, Ken-ichi		Kanazawa Univ.
10:30-12:00		FrP1C4.17
<i>Noninvasive Heart Rate Variability Analysis Using Loadcell-Installed-Bed During Sleep</i> , pp. 2357-2360.		
Chung, Gih Sung		Seoul National Univ.
Choi, Byoung Hoon		Seoul National Univ.
Jeong, Do-Un		Seoul National Univ. Hospital
Park, Kwang S.		Seoul National Univ.

FrP1D1 Forum 5&6

Neural Recording Systems and Instrumentation II (Poster Session)

Co-Chair: Butera, Robert		Georgia Inst. of Tech.
10:30-12:00		FrP1D1.1
<i>Virtual Hospital _; a Computer-Aided Platform to Evaluate the Sense of Direction</i> , pp. 2361-2364.		
Jiang, Ching-Fen		I-Shou Univ.
Li, Yuan Shyi	No.1, Sec. 1, Syuecheng Rd., Dashu Township, Kaohsiung County 84	
10:30-12:00		FrP1D1.2
<i>CMOS-Micromachined, Two-Dimensional Transistor Arrays for Neural Recording and Stimulation</i> , pp. 2365-2368.		
Lin, Jia Shian		National Tsing Hua Univ.
Chang, Sheng Ren		National Tsing Hua Univ.
Chang, Chin Hsiang		National Tsing Hua Univ.
Lu, S.C		National Tsing Hua Univ.
Chen, Hsin		National Tsing-Hua Univ.
10:30-12:00		FrP1D1.3
<i>The Electrophysiological and Functional Effect of Shock Wave on Peripheral Nerves</i> , pp. 2369-2372.		
Wu, Yi-Hui		National Taiwan Univ.
Luh, Jer-Junn		National Taiwan Univ.
Chen, Wen-Shiang		National Taiwan Univ. Hospital
Chong, Fok-Ching		National Taiwan Univ.
10:30-12:00		FrP1D1.4
<i>Low-Power High-Resolution 32-Channel Neural Recording System</i> , pp. 2373-2376.		
Yun, Xiao		Stony Brook Univ.
Kim, Donghwi		Stony Brook Univ.
Stanacevic, Milutin		Johns Hopkins Univ.
Mainen, Zachary		Cold Spring Harbor Lab.

FrP1D2 Forum 5&6

Advanced Neural Signal Processing Methods II (Poster Session)

Chair: Senhadji, Lotfi		Univ. of Rennes 1; INSERM
Co-Chair: Lipping, Tarmo		Tampere Univ. of Tech.
10:30-12:00		FrP1D2.1
<i>The Relationship between Electrovestibulography and Parkinson's Disease Severity</i> , pp. 2377-2380.		
Shoushtarian, Mehrnaz		Monash Univ.
Lithgow, Brian John		Monash Univ.
10:30-12:00		FrP1D2.2
<i>Electrovestibulography (EvestG): The "DC" Potential Used to Separate Meniere's Disease and BPPV</i> , pp. 2381-2384.		
Garrett, Amber		Monash
Heibert, Daniel		Monash Univ.
Lithgow, Brian John		Monash Univ.
10:30-12:00		FrP1D2.3
<i>Classification of Afferent Signals Recorded with a Single Cuff Electrode</i> , pp. 2385-2388.		
Choi, Changmok		Korea Advanced Inst. of Science and Tech.
Carpaneto, Jacopo		Scuola Superiore Sant'Anna
Lago, Natalia		Univ. Aut'noma de Barcelona
Kim, Jung		Korea Advanced Inst. of Science and Tech.
Dario, Paolo		Scuola Superiore Sant'Anna
Navarro, Xavier		Univ. Aut'noma de Barcelona
Micera, Silvestro		Scuola Superiore Sant'Anna

10:30-12:00 FrP1D2.4
The Roles of CPG Phase Modulation and Reflexive Muscular Patterns in Balance Recovery Reflexive Responses to Perturbation During Walking, pp. 2389-2392.
 Ikemoto, Yu, - Chiba Univ. Chiba, Japan
 Yu, Wenwei Univ. of Chiba

FrP1D3 Forum 5&6
Modeling and Simulation of Neural Systems II (Poster Session)

Chair: Magosso, Elisa Univ. of Bologna
 Co-Chair: WENDLING, Fabrice INSERM - Univ. de Rennes 1

10:30-12:00 FrP1D3.1

Behavioral Study of Calorie-Restricted Rat from Early Old Age, pp. 2393-2395.
 Geng, Yi-qun Medical Coll. of Shantou Univ.
 Guan, Jitian Shantou Univ. Medical Coll.
 Xu, Mingyan Medical Coll.
 Xu, Xiaohu Medical Coll. of Shantou Univ.
 Fu, Yucai Medical Coll. of Shantou Univ.

10:30-12:00 FrP1D3.2

Simulation Study on the Effect of Fiber Loss to the Compound Action Potential of a Sural Nerve, pp. 2396-2399.
 Hayami, Takehito Kyushu Univ.
 Iramina, Keiji Kyushu Univ.
 Chen, Xian Kyushu Univ.
 Sunagawa, Kenji Kyushu Univ.

10:30-12:00 FrP1D3.3

A Neuromusculoskeletal Model of the Elbow Joint for Pre-Clinical Testing of Total Elbow Replacement, pp. 2400-2403.
 Doheny, Emer Univ. Coll. Dublin
 Lowery, Madeleine Northwestern Univ.
 FitzPatrick, David Univ. Coll. Dublin
 O'Malley, Mark Univ. Coll. Dublin

10:30-12:00 FrP1D3.4

Effects of an Exogenous Noise on a Realistic Network Model: Encoding of an EM Signal, pp. 2404-2407.
 Paffi, Alessandra ICeMB@La Sapienza Univ. Rome
 Gianni, Matteo ICeMB at Univ. of Rome
 Maggio, Fernando ICeMB@La Sapienza Univ. Rome
 Liberti, Micaela ICeMB@La Sapienza Univ. Rome
 Apollonio, Francesca ICeMB@La Sapienza Univ. Rome
 D'Inzeo, Guglielmo ICeMB@"La Sapienza" Univ.

10:30-12:00 FrP1D3.5

Dynamical Properties of a Plastic Neural Network Model for Tinnitus Therapy and Inhibition of Oscillation Using Noise Stimulus, pp. 2408-2411.
 Fujimoto, Ken-ichi The Univ. of Tokushima
 Nagashino, Hirofumi The Univ. of Tokushima
 Kinouchi, Yohsuke The Univ. of Tokushima
 Danesh, Ali A. Florida Atlantic Univ.
 Pandya, Abhijit S. Florida Atlantic Univ.

10:30-12:00 FrP1D3.6

Parsimonious Design Principles for Motor Unit Models, pp. 2412-2415.
 Ban, Lan Georgia Inst. of Tech.
 Shapiro, Nicholas Georgia Inst. of Tech.
 Lee, Robert Emory Univ.

FrP1D4 Forum 5&6
Neural Stimulation II - FES (Poster Session)

Co-Chair: Veltink, Peter Univ. of Twente

10:30-12:00 FrP1D4.1

A Programmable and Portable NMES Device for Drop Foot Correction and Blood Flow Assist Applications, pp. 2416-2419.
 Breen, Paul National Univ. of Ireland Galway
 Corley, Gavin National Univ. of Ireland Galway
 O'Keeffe, Derek Univ. of Limerick
 Conway, Richard Univ. of Limerick
 ÓLaighin, Gearóid National Univ. of Ireland, Galway

10:30-12:00 FrP1D4.2

Locomotion Assistance for the Person with Mobility Impairment: Fuzzy Control of Cycling Movement by Means of Surface Electrical-Stimulation, pp. 2420-2423.
 Ogawa, Yohei Kyushu Inst. of Tech.

10:30-12:00 FrP1D4.3

Neuro-Sliding Mode Control with Modular Models for Control of Knee-Joint Angle Using Quadriceps Electrical Stimulation, pp. 2424-2427.
 Ajoudani, Arash Iran Univ. of Science and Tech.
 Erfanian, Abbas Iran Univ. of Science and Tech.

10:30-12:00 FrP1D4.4

What Are the Electrical Stimulation Design Parameters for Maximum VO₂ Aimed at Cardio-Pulmonary Rehabilitation?, pp. 2428-2431.
 Minogue, Conor M Biomedical Res. Ltd
 caulfield, brian UCD
 Reilly, Richard Univ. Coll. Dublin

10:30-12:00		FrP1D4.5
	EMG-Based Control for a C5/C6 Spinal Cord Injury Upper Extremity Neuroprosthesis , pp. 2432-2435.	
	Hincapie, Juan Gabriel	Case Western Res. Univ.
	Kirsch, Robert	Case Western Res. Univ.
10:30-12:00		FrP1D4.6
	Constant-Current Adjustable-Waveform Microstimulator for an Implantable Hybrid Neural Prosthesis , pp. 2436-2439.	
	Hassell, Travis	Purdue Univ.
	Jedlicka, Sabrina	Purdue Univ.
	Rickus, Jenna	Purdue Univ.
	Irazoqui, Pedro	Purdue Univ.
10:30-12:00		FrP1D4.7
	Contributions to the Study of Optimal Biphasic Pulse Shapes for Functional Electric Stimulation: An Analytical Approach Using the Excitation Functional , pp. 2440-2443.	
	Suarez-Antola, Roberto	Catholic Univ. of Uruguay

FrP1D5	Forum 5&6
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EEG and EP Analysis II (Poster Session)
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	Chair: Ktonas, Periklis	Univ. of Athens
10:30-12:00		FrP1D5.1
	Methodology to Estimate the Transient Evoked Responses for the Generation of Steady State Responses , pp. 2444-2447.	
	Bohorquez, Jorge	Univ. of Miami
	Ozdamar, Ozcan	Univ. of Miami
	Acikgoz, Nuri	Univ. of Miami
	Yavuz, Erdem	Intelligent Hearing Systems
10:30-12:00		FrP1D5.2
	Time-Frequency Feature of Intraoperative Somatosensory Evoked Potential Signals , pp. 2448-2451.	
	Hu, Yong	The Univ. of Hong Kong
	Fan, Jiang	Chinese Acad. of Medical Sciences & PekingUnionMedicalCollege
	Luk, KDK	Department of Orthopaedics and Traumatology, The Univ. of H
10:30-12:00		FrP1D5.3
	A System to Generate Patient-Specific Stimuli for Use with the Auditory Brainstem Response Test , pp. 2452-2455.	
	Petoe, Matthew Alexander	Univ. of Queensland
	Bradley, Andrew Peter	Univ. of Queensland
	Wilson, Wayne	Univ. of Queensland
10:30-12:00		FrP1D5.4
	Algorithm for AEEG Data Selection Leading to Wireless and Long Term Epilepsy Monitoring , pp. 2456-2459.	
	Casson, Alexander James	Imperial Coll. London
	Yates, David	Imperial Coll. London
	Patel, Shyam	Imperial Coll. London
	Rodriguez-Villegas, Esther	Imperial Coll. London
10:30-12:00		FrP1D5.5
	Realistic Synthetic Background Neuronal Activity for the Analysis of MEG Probe Configurations , pp. 2460-2463.	
	Badier, Jean-Michel	Aix Marseille Univ.
	COSANDIER-RIMELE, Delphine	INSERM - Univ. de Rennes 1
	Bénar, Christian G.	INSERM
	Schwartz, Denis Pierre Olivier	UPMC / CNRS / INSERM
	Chauvel, Patrick	Faculté de Médecine (Aix-Marseille Univ. & Hôpital de la T
	WENDLING, Fabrice	INSERM - Univ. de Rennes 1
10:30-12:00		FrP1D5.6
	Potential Dementia Biomarkers Based on the Time-Varying Microstructure of Sleep Eeg Spindles , pp. 2464-2467.	
	Ktonas, Periklis	Univ. of Athens
	Golemati, Spyretta	National Tech. Univ. of Athens
	Xanthopoulos, Petros	Tech. Univ. of Crete
	Sakkalis, Vangelis	FORTH and Tech. Univ. of Crete
	Ortigueira, Manuel Duarte	UNINOVA
	Tsekou, Hara	Medical School, Univ. of Athens
	Zervakis, Michalis	Tech. Univ. of Crete, Greece
	Paparrigopoulos, Thomas	Medical School, Univ. of Athens
	Soldatos, Constantin	Medical School, Univ. of Athens
10:30-12:00		FrP1D5.7
	An Embedded EEG Analyzing System Based on L; C/os-II , pp. 2468-2471.	
	Liu, Boqiang	Shandong Univ.
	Zhang, Yanyan	Shandong Univ.
	Liu, Zhongguo	Shandong Univ.
	Yin, Cong	Shandong Univ.
10:30-12:00		FrP1D5.8
	Evaluating the Event-Related Synchronization and Desynchronization by Means of a Statistical Frequency Test , pp. 2472-2475.	
	Miranda de Sá, Antonio Mauricio	Federal Univ. of Rio de Janeiro
	Infantosi, Antonio Fernando	Federal Univ. of Rio de Janeiro
	Lazarev, Vladimir	Fernandes Figueira Inst.

10:30-12:00		FrP1D5.9
Ultra-Fast Quantification of Hearing Loss by Neural Synchronization Stabilities of Auditory Evoked Brainstem Activity , pp. 2476-2479.		
Corona-Strauss, Farah I.		Saarland Univ. Hospital
Delb, Wolfgang		Saarland Univ. Hospital
Bloching, Marc		Saarland Univ. Hospital
Strauss, Daniel J.		Computl Diagnostics & Biocybernetics
10:30-12:00		FrP1D5.10
Analysis of the Actions of Nucleus Reuniens and the Entorhinal Cortex on EEG and Evoked Population Behavior of the Hippocampus , pp. 2480-2484.		
Morales, George Jason		Florida Atlantic Univ.
Ramcharan, Eion		Florida Atlantic Univ.
Sundaraman, Nithya		Florida Atlantic Univ.
Morgera, Salvatore		Florida Atlantic Univ.
Vertes, Robert		Florida Atlantic Univ.
10:30-12:00		FrP1D5.11
The Role of Attention in the Tinnitus Decompensation: Reinforcement of a Large--Scale Neural Decompensation Measure , pp. 2485-2488.		
Low, Yin Fen		Computational Diagnostics
Trenado, Carlos		Computational Diagnostics and Biocybernetics Unit
Delb, Wolfgang		Saarland Univ. Hospital
Corona-Strauss, Farah I.		Saarland Univ. Hospital
Strauss, Daniel J.		Computl Diagnostics & Biocybernetics
10:30-12:00		FrP1D5.12
A High Resolution EEG Study of Dynamic Brain Activity During Video Game Play , pp. 2489-2491.		
Sheikholeslami, Cameron		Univ. of Minnesota
Yuan, Han		Tsinghua Univ.
He, Eric J.		Univ. of Minnesota
Bai, Xiaoxiao		Univ. of Minnesota
Yang, Lin		Univ. of Minnesota
He, Bin		Univ. of Minnesota
10:30-12:00		FrP1D5.13
NIRS Measurement of Hemodynamic Evoked Responses in the Primary Sensorimotor Cortex , pp. 2492-2495.		
XU, Mingdi		Kyushu Univ.
Takata, Hirotsugu		Kyushu Univ.
Ge, Sheng		Kyushu Univ.
Hayami, Takehito		Kyushu Univ.
YAMASAKI, Takao		Kyushus Univ.
TOBIMATSU, Shozo		Kyushu Univ.
Iramina, Keiji		Kyushu Univ.
10:30-12:00		FrP1D5.14
Spatial-Temporal Analysis of Face Processing Using an ERP Study of the Thatcher Illusion , pp. 2496-2499.		
Gu, Xiaohui		Shanghai Univ.
Li, Yingjie		Shanghai Univ.
Yang, Xiaoli		Purdue Univ. Calumet
Zhu, Yisheng		Shanghai Jiaotong Univ. Shanghai, China
10:30-12:00		FrP1D5.15
Stochastic Resonance Seen As Increase in Phase Synchrony or Power in Auditory Steady-State Responses in MEG , pp. 2500-2503.		
Tanaka, Keita		Tokyo Denki Univ.
Nemoto, Iku		Tokyo Denki Univ.
Kawakatsu, Masaki		Tokyo Denki Univ.
10:30-12:00		FrP1D5.16
Comparison of Mismatch Fields in MEG Elicited by Changes in Tonal and Atonal Sequences in Music , pp. 2504-2507.		
Maeshima, Katsuya		Tokyo Denki Univ.
Shiba, Reiko		RIKEN Brain Science Inst.
Nemoto, Iku		Tokyo Denki Univ.
FrP1D6		Forum 5&6
Brain-Computer Interfaces III (Poster Session)		
10:30-12:00		FrP1D6.1
A Nad'Ve and Fast Human Computer Interface Controllable for the Inexperienced, a Performance Study , pp. 2508-2511.		
Krueger, Thilo B		Univ. of Freiburg
Stieglitz, Thomas		Univ. of Freiburg
10:30-12:00		FrP1D6.2
An Automated Method for Relevant Frequency Bands Identification Based on Genetic Algorithms and Dedicated to the Motor Imagery BCI Protocol , pp. 2512-2515.		
Parini, Sergio		Pol. di Milano
Maggi, Luca		Pol. di Milano
Andreoni, Giuseppe		Pol. di Milano
10:30-12:00		FrP1D6.3
Human Error in P300 Speller Paradigm for Brain-Computer Interface , pp. 2516-2519.		
Fazel-Rezai, Reza		Univ. of Manitoba

10:30-12:00		FrP1D6.4
Topographical Dynamics of Brain Connections for the Design of Asynchronous Brain-Computer Interfaces , pp. 2520-2523.		
Gouy-Pailler, Cedric		GIPSA-Lab. UJF-CNRS
Achard, Sophie		Univ. of Cambridge
Jutten, Christian		Inst. National Pol. de Grenoble
Congedo, Marco		Nova Tech. EEG
Rivet, Bertrand		Commissariat f l'Energie Atomique
Souloumiac, Antoine		Commissariat f l'Energie Atomique
MABY, Emmanuel		INSERM
10:30-12:00		FrP1D6.5
A 3-Class Asynchronous BCI Controlling a Simulated Mobile Robot , pp. 2524-2527.		
Geng, Tao		Univ. of Essex
Gan, John Q.		Univ. of Essex, UK
10:30-12:00		FrP1D6.6
Robustness of the Farwell & Donchin BCI Protocol to Visual Stimulus Parameter Changes , pp. 2528-2531.		
Salvaris, Mathew		Univ. of Essex
Sepulveda, Francisco		Univ. of Essex
10:30-12:00		FrP1D6.7
Non Invasive Brain-Computer Interface System to Operate Assistive Devices , pp. 2532-2535.		
Cincotti, Febo		Fondazione Santa Lucia IRCCS
Aloise, Fabio		Fondazione Santa Lucia IRCCS
Bufalari, Simona		Fondazione Santa Lucia IRCCS
Schalk, Gerwin		Wadsworth Center, New York State Department of Health
Oriolo, Giuseppe		Univ. La Sapienza
Cherubini, Andrea		Univ. La Sapienza
Davide, Fabrizio		Telecom Italia Learning Services
Babiloni, Fabio		Univ. of Rome
Marciani, Maria Grazia		Tor Vergata Univ.
Mattia, Donatella		Fondazione Santa Lucia IRCCS
10:30-12:00		FrP1D6.8
Adaptive Classification for Brain Computer Interfaces , pp. 2536-2539.		
Blumberg, Julie		Albert-Ludwigs-Univ. of Freiburg
Rickert, Joern		Univ. of Freiburg
Waldert, Stephan		Univ. of Tübingen
Schulze-Bonhage, Andreas		Univ. Hospital Freiburg
Aertsen, Ad		Albert-Ludwigs-Univ.
Mehring, Carsten		Albert-Ludwigs-Univ.
10:30-12:00		FrP1D6.9
Comparison of EEG Pattern Classification Methods for Brain-Computer Interfaces , pp. 2540-2543.		
Dias, Nuno S.		Univ. of Minho
Kamrunnahar, Mst (Kamrun)		The Pennsylvania State Univ.
Mendes, Paulo M.		Univ. of Minho
Schiff, Steven		Pennsylvania State Univ.
Correia, Higinio		Univ. of Minho
10:30-12:00		FrP1D6.10
Adaptive EEG Thought Pattern Classifier for Advanced Wheelchair Control , pp. 2544-2547.		
Craig, Daniel Ashley		Univ. of Tech. Sydney
Nguyen, Hung		Univ. of Tech. Sydney
FrB01		
Adaptive and Parametric Filtering in Biomedical Signals I (Oral Session)		Gratte Ciel 1
Chair: Bianchi, Anna Maria		Pol. di Milano
Co-Chair: Kahya, Yasemin P.		Bogazici Univ.
12:45-13:00		FrB01.1
ECG Denoising Using Parameters of ECG Dynamical Model As the States of an Extended Kalman Filter , pp. 2548-2551.		
Sayadi, Omid		Sharif Univ. of Tech.
Sameni, Reza		Sharif Univ. of Tech.
Shamsollahi, Mohammad Bagher		Sharif Univ. of Tech.
13:00-13:15		FrB01.2
Cancellation of Artifacts in ECG Signals Using a Normalized Adaptive Neural Filter , pp. 2552-2555.		
Wu, Yunfeng		Beijing Univ. of Posts & Telecom
Rangayyan, Raj		Univ. of Calgary
NG, Sin Chun		The Open Univ. of Hong Kong
13:15-13:30		FrB01.3
Lung Model Parameter Estimation by Unscented Kalman Filter , pp. 2556-2559.		
Saatç1;, Esra		Istanbul Kultur Univ.
Akan, Ayd1;n		Istanbul Univ.
13:30-13:45		FrB01.4
Sleep Monitoring through a Textile Recording System , pp. 2560-2563.		
Devot, Sandrine		Philips Res. Europe
Bianchi, Anna Maria		Pol. di Milano
Naujokat, Elke		Philips Res. Europe Lab.
Mendez, Martin		Pol. di Milano
Brauers, Andreas		Philips Res. Europe Lab.
Cerutti, Sergio		Pol. Univ. of Milan

13:45-14:00		FrB01.5
<i>Adaptive Noise Cancellation Using Accelerometers for the PPG Signal from Forehead</i> , pp. 2564-2567.		
Kim, Sang Hyun	Korea Univ. of Science and Tech.	
Ryoo, Dong Wan	ETRI	
Bae, Chang Seok	ETRI	
14:00-14:15		FrB01.6
<i>A Robust Tool to Compare Pre and Post-Surgical Voice Quality</i> , pp. 2568-2571.		
Manfredi, Claudia	Univ. degli Studi di Firenze	
Canalicchio, Riccardo	Univ. degli Studi di Firenze	
Cecconi, Giulio	Univ. degli Studi di Firenze	
Cantarella, Giovanna	Ospedale Maggiore IRCCS	
14:15-14:30		FrB01.7
<i>A New Acupuncture Point Detection Using the Impedance Measurement System Based on ANF and Phase-Space-Method</i> , pp. 2572-2574.		
Park, Ho Dong	Yonsei Univ.	
Song, Mi Hye	Yonsei Univ.	
Choi, Hyun Seok	Yonsei Univ.	
Myoung, Hyoun Seok	Yonsei Univ.	
Lee, Kyoung Joung	Yonsei Univ.	
FrB02		Gratte Ciel 2
Signal Processing and Physiological System Modeling V (Oral Session)		
Chair: Baselli, Giuseppe	Pol. di Milano	
Co-Chair: Mukkamala, Ramakrishna	Michigan State Univ.	
12:45-13:00		FrB02.1
<i>Detection and Prediction of Sudden Cardiac Death (SCD) for Personal Healthcare</i> , pp. 2575-2578.		
Shen, Tsu-Wang (David)	Tzu Chi Univ.	
Shan, Hsiao-Ping	TZU CHI Univ.	
Lin, Ching Heng	TZU CHI Univ.	
Ou, Yi-Ling	TZU CHI Univ.	
13:00-13:15		FrB02.2
<i>Discrimination between Demand and Supply Ischemia Episodes in Holter Recordings</i> , pp. 2579-2582.		
Mincholé, Ana	Univ. of Zaragoza	
Jager, Franc	Univ. of Ljubljana	
Laguna, Pablo	Zaragoza Univ.	
13:15-13:30		FrB02.3
<i>T-Wave Vector Alternans Detection Based on Holter ECG Recordings</i> , pp. 2583-2586.		
Satoh, Toshihisa	Hosei Univ.	
Yana, Kazuo	Hosei Univ.	
shichiku, hiroyuki	Univ.	
Mizuta, Hirohisa	Josai Univ.	
Ono, Takuya	Nippon Medical School	
13:30-13:45		FrB02.4
<i>Impact of Sampling Rate Reduction on Automatic ECG Delineation</i> , pp. 2587-2590.		
Simón, Fernando	Univ. de Zaragoza	
Martínez, Juan Pablo	Univ. of Zaragoza	
Laguna, Pablo	Zaragoza Univ.	
Houben, Richard	Advanced Concepts	
van Grinsven, Bart	Biomedical Sciences	
Rutten, Cyril	Univ. of Hasselt	
13:45-14:00		FrB02.5
<i>The Effect of Internal DC Shocks on the Atrial Fibrillation Frequency</i> , pp. 2591-2594.		
Diaz, Jose David	Univ. Nacional Experimental Francisco de Miranda	
Castro, Noel Camilo	Univ. Simón Bolívar	
Escalona, Omar Jacinto	Univ. of Ulster	
Anderson, John McCune	Univ. of Ulster	
GLOVER, BEN	RVH	
Adgey, Jennifer	Royal Victoria Hospital	
14:00-14:15		FrB02.6
<i>Estimation of the Scope of Transvenous Lead Systems in Implantable Cardioverter Defibrillators</i> , pp. 2595-2598.		
Requena Carrion, Jesus	Univ. Rey Juan Carlos, Fuenlabrada, Madrid	
Väisänen, Juho	Tampere Univ. of Tech.	
Alonso Atienza, Felipe	Univ. Rey Juan Carlos	
Rojo Alvarez, Jose Luis	Univ. Rey Juan Carlos	
hyttinen, jari	Tampere Univ. of Tech.	
Garcia Alberola, Arcadio	no se	

FrB03		Bellecour 1
Novel Imaging Methods (Oral Session)		
Chair: Golay, Xavier		Singapore Bioimaging Consortium
12:45-13:00		FrB03.1
Magnetic Resonance Elastography to Observe Deep Areas: Comparison of External Vibration Systems , pp. 2599-2602.		
Suga, Mikio		Chiba Univ.
Obata, Takayuki		National Inst. of Radiological Sciences
Hirano, Masaya		GE Yokogawa Medical Systems, Ltd
Tanaka, Takashi		Chiba Univ.
Ikehira, Hiroo		National Inst. of Radiological Sciences
13:00-13:15		FrB03.2
Multi-Modal Imaging: Simultaneous MRI and Ultrasound Imaging for Carotid Arteries Visualization , pp. 2603-2606.		
TANG, Annie M.		The Univ. of Hong Kong
Kacher, Daniel F.		Brigham and Women's Hospital / Harvard Medical School
Lam, Edmund Y.		Univ. of Hong Kong
Brodsky, Michael		Terason Ultrasound, Div. of Teratech Corp.
Jolesz, Ferenc A.		Brigham and Women's Hospital / Harvard Medical School
Yang, Edward		Univ. of Hong Kong
13:15-13:30		FrB03.3
A Magnetic Resonance Elastography (MRE) Approach for Liver Investigation , pp. 2607-2610.		
grenier, denis		Univ. claudes bernard Lyon 1, Insa Lyon, CNRS, INSERM
MILLOT, Laurent		Univ. de Lyon, Univ. Lyon 1, INSA-Lyon
peng, xian		Creatis LRMN, UMR CNRS 5220, U 630 INSERM, INSA, UCBL1
PILLEUL, Frank		Univ. de Lyon, Univ. Lyon 1, INSA-Lyon
BEUF, olivier		Univ. de Lyon, Univ. Lyon 1, INSA-Lyon
13:30-13:45		FrB03.4
Magnetic Resonance Elastography with Twin Pneumatic Drivers for Wave Compensation , pp. 2611-2613.		
Zheng, Ying		The Univ. of Hong Kong
Li, Geng		The Univ. of Hong Kong
Chen, Min		Beijing Hospital
Chan, Queenie C. C.		Philips Electronics Hong Kong Limited
Hu, Shu-Guang		Philips
Zhao, Xu-Na		Philips Medical Systems, Philips Electronics China Limited
Ehman, L. Richard		Mayo Clinic
Lam, Edmund Y.		Univ. of Hong Kong
Yang, Edward		Univ. of Hong Kong
13:45-14:00		FrB03.5
Method for Target Tracking in Focused Ultrasound Surgery of Liver Using Magnetic Resonance Filtered Venography , pp. 2614-2617.		
Kokuryo, Daisuke		Kobe Univ.
Kaihara, Toshiya		Faculty of Engineering, Kobe Univ.
Kumamoto, Etsuko		Kobe Univ.
Fujii, Susumu		Faculty of Science and Tech. Sophia Univ.
Kuroda, Kagayaki		School of Information Science and Tech. TokaiUniversity
14:00-14:15		FrB03.6
Ultra-Fast Brain MR Imaging Using Simultaneous Multi-Slice Acquisition (SMA) Technique , pp. 2618-2621.		
Wu, Edzer		National Taiwan Univ.
Kuo, Li-Wei		National Taiwan Univ.
Wu, Fu-Hsing		National Taiwan Univ.
Hsu, Chien-Fang		NTU
Hsieh, Chang-Wei		National Taiwan Univ.
Chen, Jyh-Horng		National Taiwan Univ.
Chiueh, Tzi-Dar		National Taiwan Univ.

FrB04		Bellecour 3
Optical Imaging II (Oral Session)		
Chair: Gandjbakhche, Amir		National Inst. of Health
12:45-13:00		FrB04.1
Differential Optical Spectroscopy for Absorption Characterization of Mono & Two-Layered Scattering Media , pp. 2622-2625.		
Billet, Cyril		Univ. Claude Bernard Lyon 1
Sablong, Raphaël		Univ. Claude Bernard Lyon 1
13:00-13:15		FrB04.2
Fluorescence Diffuse Optical Tomographic (fDOT) System for Small Animal Studies , pp. 2626-2629.		
Koenig, Anne		CEA-LETI Minatec
Boutet, Jérôme		CEA-LETI Minatec
Hervé, Lionel		CEA-LETI Minatec
Berger, Michel		CEA-LETI Minatec
dinten, jean-marc		CEA-LETI, MINATEC
da silva, anabela		CEA-LETI, MINATEC
peltié, philippe		CEA-LETI, MINATEC
rizo, philippe		CEA-LETI, MINATEC

13:15-13:30		FrB04.3
Combined Thermal and Laser Doppler Imaging in the Assessment of Cutaneous Tissue Perfusion , pp. 2630-2633.		
Merla, Arcangelo	ITAB - Inst. of Advanced Biomedical Tech. - Foundation	Univ. of Chieti-Pescara
Di Romualdo, Sandro		ITAB- Inst. for Advanced Biomedical Tech. -
Di Donato, Luigino		Univ. of Rome La Sapienza
Proietti, Michele		Univ. of Rome La Sapienza
Salsano, Felice		Univ. of Chieti-Pescara
Romani, Gian Luca		
13:30-13:45		FrB04.4
Using FMRI and FNIRS for Localization and Monitoring of Visual Cortex Activities , pp. 2634-2638.		
Kashou, Nasser		The Ohio State Univ.
Xu, Ronald		The Ohio State Univ.
roberts, cynthia		Ohio State Univ.
Leguire, Lawrence		Childrens Hospital
13:45-14:00		FrB04.5
A Simulation-Based Study of Reconstruction in Time-Resolved Fluorescence Diffuse Optical Tomography in Cylindrical Geometry , pp. 2639-2642.		
Ducros, Nicolas		CEA-LETI, MINATEC
da silva, anabela		CEA-LETI, MINATEC
dinten, jean-marc		CEA-LETI, MINATEC
PEYRIN, Francoise	UMR CNRS 5220; Inserm U630; INSA-Lyon; ESRF	
14:00-14:15		FrB04.6
Fourier Domain - Optical Coherence Tomography Based on a Quadrature Mach-Zehnder Interferometer , pp. 2643-2646.		
Flueraru, Costel		National Res. Council of Canada
Mao, Linda		National Res. Council of Canada
Sherif, Sherif		National Res. Council of Canada
Chang, Shoude		National Res. Council of Canada
FrB05		Tête d'Or Lounge
Integrated Wearable Systems towards Biomedical Applications I (Oral Session)		
Chair: Tamura, Toshiyo	Chiba Univ. Graduate School of Engineering	
Co-Chair: Di Rienzo, Marco	Fondazione Don Carlo Gnocchi	
12:45-13:00		FrB05.1
Electrocardiogram Measurement During Sleep with Wearing Clothes Using Capacitively-Coupled Electrodes , pp. 2647-2650.		
Ishida, Shuhei		Ritsumeikan Univ.
13:00-13:15		FrB05.2
Wearable System-On-A-Chip UWB Radar for Health Care and Its Application to the Safety Improvement of Emergency Operators , pp. 2651-2654.		
Zito, Domenico		Univ. of Pisa
Pepe, Domenico		Univ. of Pisa
Neri, Bruno		Univ. of Pisa
De Rossi, Danilo		Univ. of Pisa
Lanata', Antonio		Univ. of Pisa
tognetti, alessandro		Univ. of Pisa
Scilingo, Enzo Pasquale		Univ. of Pisa
13:15-13:30		FrB05.3
Electrostatic Interference in Contactless Biopotential Measurements , pp. 2655-2658.		
Casas, Oscar		Tech. Univ. of Catalonia
Pallàs-Areny, Ramon		Univ. Pol. de Catalunya
13:30-13:45		FrB05.4
Design of Posture and Activity Detector (PAD) , pp. 2659-2663.		
Bliley, Kara		Mayo Clinic Coll. of Medicine
Schwab, Daniel		Mayo Clinic Coll. of Medicine
Zahn, Sharon		Mayo Clinic Coll. of Medicine
Rowley, Katharine		Mayo Clinic Coll. of Medicine
Kane, Paul		Mayo Clinic Coll. of Medicine
Levine, James		Mayo Clinic Coll. of Medicine
Daniel, Erik		Mayo Clinic Coll. of Medicine
Gilbert, Barry		Mayo Clinic Coll. of Medicine
13:45-14:00		FrB05.5
An Evaluation of a Non-Contact Biomotion Sensor with Actimetry , pp. 2664-2668.		
Fox, Niall		BiancaMed
Heneghan, Conor		Univ. Coll. Dublin
Gonzalez, Monica	Hospital Univ. Marques de Valdecilla	
Shouldice, Redmond		BiancaMed Ltd
de Chazal, Philip		BiancaMed Ltd
14:00-14:15		FrB05.6
Detecting Motion Artifact ECG Noise During Sleeping by Means of a Tri-Axis Accelerometer , pp. 2669-2672.		
Kishimoto, Yoshifumi		Aichi Prefectural Univ.
Kutsuna, Yasunari		Aichi Prefectural Univ.
Oguri, Koji		Aichi Prefectural Univ.

FrB06		Tețe d'Or 2
Biological and Biochemical Sensors, Materials I (Oral Session)		
Chair: Laureyn, Wim		IMEC
Co-Chair: Diamond, Dermot		Dublin City Univ.
12:45-13:00		FrB06.1
<i>A Low-Power Wide Range Transimpedance Amplifier for Biochemical Sensing</i> , pp. 2673-2676.		
Rodriguez-Villegas, Esther		Imperial Coll. London
13:00-13:15		FrB06.2
<i>Effect of Self-Assembled Monolayers (SAMs) in Binding Glucose Oxidase for Electro-Enzymatic Glucose Sensor with Gold Electrodes</i> , pp. 2677-2680.		
Patel, Jasbir N.		Simon Fraser Univ.
Kaminska, Bozena		SIMON FRASER Univ.
Gray, Bonnie L.		Simon Fraser Univ.
Gates, Byron		Simon Fraser Univ.
13:15-13:30		FrB06.3
<i>Chromium Hexacyanoferrate Modified Biosensor Based on PQQ-Dependent Glucose Dehydrogenase</i> , pp. 2681-2684.		
Tseng, Ta-Feng		Chung Yuan Christian Univ.
Yang, Yang Li		Chung Yuan Christian University
Lou, Shyhliang		Chung Yuan Christian Univ.
13:30-13:45		FrB06.4
<i>Optimal Electrode Placement and Frequency Range Selection for the Detection of Lung Water Using Bioimpedance Spectroscopy</i> , pp. 2685-2688.		
Beckmann, Lisa		RWTH Aachen Univ.
van Riesen, Dirk		RWTH Aachen
Leonhardt, Steffen		RWTH Aachen Univ.
13:45-14:00		FrB06.5
<i>Developing a Tissue Perfusion Sensor</i> , pp. 2689-2692.		
harvey, severin		Imperial Coll.
Parker, Kim H.		Imperial Coll. London
O'hare, Danny		Imperial Coll.
FrB07		Bellecour 2
Ventricular Mechanics and Coronary Circulation (Oral Session)		
Chair: Li, John K-J.		Rutgers Univ.
12:45-13:00		FrB07.1
<i>Pressure Reservoir-Wave Separation Applied to Coronary Arterial Data</i> , pp. 2693-2696.		
Aguado-Sierra, Jazmin		Imperial Coll. London
Parker, Kim H.		Imperial Coll. London
Davies, Justin E.		St. Mary's Hospital, Imperial Coll. London
Francis, Darrel		St. Mary's Hospital, Imperial Coll. London
Mayet, Jamil		St. Mary's Hospital, Imperial Coll. London
Hadjiloizou, Nearchos		St. Mary's Hospital, Imperial Coll. London
13:00-13:15		FrB07.2
<i>A Three Dimensional Heart Model Based on Anatomically Aligned Trusses</i> , pp. 2697-2700.		
Witman, Sima		Tel Aviv Univ.
Gefen, Amit		Tel Aviv Univ.
Barnea, Ofer		Tel Aviv Univ.
13:15-13:30		FrB07.3
<i>Computational Study of Blood Flow in an Aorto-Coronary Bypass Model Using Single versus Sequential Grafting Technique</i> , pp. 2701-2704.		
Sankaranarayanan, Meena		Inst. for Infocomm Res.
Chen, Xiang		Inst. for Infocomm Res.
13:30-13:45		FrB07.4
<i>Quantitative Evaluation for Anastomotic Technique of Coronary Artery Bypass Grafting by Using In-Vitro Mock Circulatory System</i> , pp. 2705-2708.		
Park, Young Kwang		Waseda Univ.
Mita, Yutaka		Waseda Univ.
Okii, Eriko		Waseda Univ.
Kanemitsu, Naohiko		Waseda Univ.
Shiraishi, Yasuyuki		Inst. of Development, Aging and Cancer, Tohoku University
Azuma, Takashi		Tokyo Women's Medical Univ.
Ochi, Masami		Nippon Medical School
Umezumi, Mitsuo		Waseda Univ. Graduate School
13:45-14:00		FrB07.5
<i>Assessment of Training-Dependent Changes in the Left Ventricle Torsion Dynamics of Professional Soccer Players Using Speckle-Tracking Echocardiography</i> , pp. 2709-2712.		
Zócalo, Yanina		School of Medicine, Republic Univ.
Bia, Daniel		School of Medicine, Republic Univ.
Armentano, Ricardo Luis		Favaloro Univ.
Arias, Laura		Fundación Favaloro
Lopez, Claudio		Fundación Favaloro
Etchart, Carolina		School of Medicine, Republic Univ.
Guevara, Eduardo		Fundación Favaloro

FrB08	Gratte Ciel Lounge
Modeling and Simulation of Neural Systems I (Oral Session)	
Chair: WENDLING, Fabrice	INSERM - Univ. de Rennes 1
Co-Chair: Magosso, Elisa	Univ. of Bologna
12:45-13:00	FrB08.1
<i>H-Reflex Depression Simulated by a Biologically Realistic Motoneuron Network</i> , pp. 2713-2716.	
Cisi, Rogerio Rodrigues Lima	Univ. of Sao Paulo
Kohn, Andre	Univ. of Sao Paulo
13:00-13:15	FrB08.2
<i>Modeling and Identifying the Somatic Reflex Network of the Human Neuromuscular System</i> , pp. 2717-2721.	
Murai, Akihiko	The Univ. of Tokyo
Katsu, Yamane	Univ. of Tokyo
Nakamura, Yoshihiko	Univ. of Tokyo
13:15-13:30	FrB08.3
<i>Smooth Muscle Model for Functional Electrical Stimulation Applications</i> , pp. 2722-2725.	
Guiraud, David	INRIA
Laforet, Jeremy	Univ. Montpellier 2
13:30-13:45	FrB08.4
<i>The Effect of Extracellular Potassium Concentration on Muscle Fiber Conduction Velocity Examined Using Model Simulation</i> , pp. 2726-2729.	
Fortune, Emma	Univ. Coll. Dublin
Lowery, Madeleine	Northwestern Univ.
13:45-14:00	FrB08.5
<i>An in Computo Investigation of the Landau-Kleffner Syndrome</i> , pp. 2730-2734.	
Bonjean, Maxime	Univ. of Liège
14:00-14:15	FrB08.6
<i>A Neural Network Model of Multisensory Representation of Peripersonal Space: Effect of Tool Use</i> , pp. 2735-2739.	
Ursino, Mauro	Univ. of Bologna
Zavaglia, Melissa	Univ. of Bologna
Magosso, Elisa	Univ. of Bologna
Serino, Andrea	Univ. of Bologna
di Pellegrino, Giuseppe	Univ. of Bologna
FrB09	Gratte Ciel 3
Human-Robot Interactions II (Oral Session)	
Chair: Laschi, Cecilia	Scuola Superiore Sant'Anna
12:45-13:00	FrB09.1
<i>Monitoring Patient Respiration Using a Single Optical Camera</i> , pp. 2740-2743.	
Wiesner, Stefan	TU Munich
Yaniv, Ziv	Georgetown Univ.
13:00-13:15	FrB09.2
<i>Goodness-Of-Fit Determination of Femoral Knee Prosthesis Using Computer Segmentation</i> , pp. 2744-2747.	
Van Schalkwyk, Etienne Pierre	Stellenbosch Univ.
Scheffer, Cornie	Stellenbosch Univ.
Dillon, Edwin	Stellenbosch Medi-clinic
Erasmus, PJ	Stellenbosch Medi-clinic
13:15-13:30	FrB09.3
<i>Needle Positioning in Interventional MRI Procedure: Real Time Optical Localisation and Accordance with the Roadmap</i> , pp. 2748-2751.	
Viard, Romain	CHRU Lille
Betrouni, Nacim	Inst. de Tech. Médicale
Rousseau, Jean	INSERM - Univ. de Lille 2
Mordon, Serge	Lille Univ. Hospital
Ernst, Olivier	CHRU Lille
MAOUCHE, Salah	UST Lille
13:30-13:45	FrB09.4
<i>Toward the Simulation of the Strain of Female Pelvic Organs</i> , pp. 2752-2755.	
Bellemare, Marc-Emmanuel	Univ. Paul Cezanne
Pirró, Nicolas	Univ. de la méditerranée, Assistance Publique des hôpitaux d
Marsac, Laurent	Supersonic Imagine
Durieux, Olivier	Assistance Publique des Hôpitaux de Marseille, Hôpital Ste Margu
13:45-14:00	FrB09.5
<i>Modeling of Needle Steering Via Duty-Cycled Spinning</i> , pp. 2756-2759.	
Minhas, Davneet	Carnegie Mellon Univ.
Engh, Johnathan	Univ. of Pittsburgh
Fenske, Michele	Cleveland State Univ.
Riviere, Cameron	Carnegie Mellon Univ.
14:00-14:15	FrB09.6
<i>Instrument-Tissue Segment Interaction Using Finite Element Modeling</i> , pp. 2760-2763.	
Alsaraira, Amer	Monash Univ.
Brown, Ian	Monash Univ.
McCull, Ryan	Monash Univ.
Lim, Fabian	Monash Univ.

FrB10	Rhône 1
Clinical Engineering II (Oral Session)	
Chair: Langevin, François	Compiègne Univ. of Tech.
12:45-13:00	FrB10.1
Novel Lead Configurations for Robust Bio-Impedance Acquisition , pp. 2764-2767.	
Ironstone, Joel	Z-Tech. (Canada) Inc.
Graovac, Milan	Univ. of Toronto
Martens, James	Univ. of Waterloo
Rozee, Martin	Z-Tech. (Canada) Inc.
Smith, Kenneth C.	Univ. of Toronto
13:00-13:15	FrB10.2
Development of FES-Rowing Machine , pp. 2768-2771.	
MIYAWAKI, KAZUTO	AKITA R&D CENTER
IWAMI, TAKEHIRO	Akita Univ.
Obinata, Goro	Nagoya Univ.
SHIMADA, YOICHI	Akita Univ. Hospital
MATSUNAGA, TOSHIKI	Akita Univ. Hospital
SATO, MINEYOSHI	Akita Univ. Hospital
13:15-13:30	FrB10.3
Clinical Engineering in France: State and Trends for the Future , pp. 2772-2774.	
DECOUVELAERE, MARTINE	HOSPICES CIVILS DE LYON
MACQUET, PIERRE	Centre Hospitalier
VOGT, ARNAUD	Centre hospitalier Univ. Saint-Antoine
13:30-13:45	FrB10.4
Collection and Exploratory Analysis of Attitude Sensor Data in an Epilepsy Monitoring Unit , pp. 2775-2778.	
Becq, Guillaume	INSERM
Bonnet, Stéphane	CEA Léti MINATEC
Minotti, Lorella	INSERM
Antonakios, Michel	CEA Léti Minatec
Guillemaud, Regis	CEA Léti MINATEC
Kahane, Philippe	INSERM
13:45-14:00	FrB10.5
Simultaneous Measurement of Eye Stiffness and Contact Area for Living Human Eyes , pp. 2779-2782.	
Kurita, Yuichi	Nara Inst. of Science and Tech.
Iida, Yoshichika	Hiroshima Univ.
Kaneko, Makoto	Hiroshima Univ.
mishima, hiromu	Hiroshima General Hospital
katakura, seiki	Hiroshima Univ.
kiuchi, yoshiaki	Hiroshima Univ.
14:00-14:15	FrB10.6
Real-Time Evaluation of Patient Monitoring Algorithms for Critical Care at the Bedside , pp. 2783-2786.	
Zhang, Ying	MIT, Harvard Medical School-MIT Div. of Health Science
Silvers, Christine Tsien	Caritas Good Samaritan Medical Center, Jordan Hospital, Massachu
Randolph, Adrienne G.	Harvard Medical School
FrB11	Tête d'Or 1
Telemedicine I (Oral Session)	
Chair: Fotiadis, Dimitrios I.	Univ. of Ioannina
Co-Chair: Pattichis, Constantinos	Univ. of Cyprus
12:45-13:00	FrB11.1
HomeCI - a Visual Editor for Healthcare Professionals in the Design of Home Based Care , pp. 2787-2790.	
Nugent, Chris	Univ. of Ulster
Davies, Richard John	Univ. of Ulster
Hallberg, Josef	Luleå Univ. of Tech.
Donnelly, Mark	Univ. of Ulster
Synnes, Kíre	Univ.
Poland, Michael	Univ. of Ulster
Wallace, Jonathan Graeme	Univ. of Ulster
Finlay, Dewar	Univ. of Ulster
Mulvenna, Maurice	Univ. of Ulster
CRAIG, David	Queen's Univ. Belfast
13:00-13:15	FrB11.2
J2ME and Smart Phones As Platform for a Bluetooth Body Area Network for Patient-Telemonitoring , pp. 2791-2794.	
Moron, Maria J.	Univ. de Málaga
Luque, J. Rafael	Univ. de Málaga
Cuberos, Emilio J.	Univ. de Málaga
Botella, Antonio A.	Univ. de Málaga
Casilari, Eduardo	Univ. de Málaga
Diaz Estrella, Antonio	Univ. de Málaga
13:15-13:30	FrB11.3
An Analysis for Specifications of Medical Use RFID System As a Wireless Communication , pp. 2795-2798.	
HOSAKA, Ryosuke	Shonan Inst. of Tech.

13:30-13:45 FrB11.4
Automatic Mobile Device Synchronization and Remote Control System for High-Performance Medical Applications, pp. 2799-2802.
 Constantinescu, Liviu Univ. of Sydney
 Kim, Jinman Univ. of Sydney
 Chan, Chung Univ. of Sydney
 Feng, Dagan The Univ. of Sydney

13:45-14:00 FrB11.5
Experience at Italian National Institute of Health in the Quality Control in Telemedicine: Tools for Gathering Data Information and Quality Assessing, pp. 2803-2806.
 Giansanti, Daniele Istituto Superiore di Sanitf
 Morelli, Sandra Istituto Superiore di Sanitf
 Macellari, Velio Istituto Superiore di Sanitf

FrB12 Rhône 2
Health Technologies and Private Public Partnerships in Emerging Markets: Example Projects to Learn from II (Invited Session)

Chair: Roes, Jan Pernosco
 Organizer: Roes, Jan Pernosco

12:45-13:00 FrB12.1
Optical Screening of Oral Cancer: Technology for Emerging Markets (I), pp. 2807-2810.

Naik, Sarif Kumar Philips Electronics India Ltd
 Gupta, Lalit Philips Electronics India Ltd.
 Mittal, Chetan Philips Electronics India Ltd.
 Balakrishnan, Srinivasan Philips Electronics India Ltd.
 Rath, Satish prasad Philips Res.
 C, Santhosh Manipal Univ.
 Pai, Keerthilatha Manipal Univ.

FrB13 Roseraie 1,2
Capsular Endoscopy (Invited Session)

Chair: Dario, Paolo Scuola Superiore Sant'Anna
 Co-Chair: Menciassi, Arianna Scuola Superiore Sant'Anna
 Organizer: Menciassi, Arianna Scuola Superiore Sant'Anna
 Organizer: Dario, Paolo Scuola Superiore Sant'Anna

12:45-13:00 FrB13.1
A Magnetic Stereo-Actuation Mechanism for Active Capsule Endoscope (I), pp. 2811-2814.

Meng, Max Q.-H. The Chinese Univ. of Hong Kong
 Wang, Xiaona Chinese Univ. of Hong Kong

13:00-13:15 FrB13.2
Data Processing Tasks in Wireless GI Endoscopy: Image-Based Capsule Localization & Navigation and Video Compression (I), pp. 2815-2818.

Bulat, Jaroslaw AGH Univ. of Science and Tech.
 Duda, Krzysztof AGH Univ. of Science and Tech.
 Duplaga, Mariusz Jagiellonian Univ. Medical Coll.
 Fraczek, Rafal AGH Univ. of Science and Tech.
 Skalski, Andrzej AGH Univ. of Science and Tech.
 Socha, Mirosław AGH Univ. of Science and Tech.
 Turcza, Pawel AGH Univ. of Science and Tech.
 Zielinski, Tomasz AGH Univ. of Science and Tech.

13:15-13:30 FrB13.3
High Dynamic Range CMOS Image Sensors in Biomedical Applications (I), pp. 2819-2822.

Vatteroni, Monica Neuricam
 Covi, Daniele Neuricam
 Crespi, Bruno Neuricam
 Sartori, Alvise Neuricam
 Stoppa, David FBK-IRST Res. Inst.

13:30-13:45 FrB13.4
Micro Capsule Endoscope for Gastro Intestinal Tract (I), pp. 2823-2826.

Kim, Tae Song Korea Inst. of Science and Technology
 Song, Si Young Inst. of Gastroenterology, Yonsei Univ. of Coll. of M
 Jung, Han I3system. Co.
 Kim, Jinseok Korea Inst. of Science and Tech.
 Yoon, Eui-Sung Korea Inst. of Science and Tech.

13:45-14:00 FrB13.5
An Approach to Capsular Endoscopy with Active Motion (I), pp. 2827-2830.

Quirini, Marco Pol. Sant'Anna Valdera - Scuola Superiore Sant'Anna
 Scapellato, Sergio Scuola Superiore di Studi Univ. e Perfezionamento Sant'Ann
 Valdastrì, Pietro Scuola Superiore Sant'Anna
 Menciassi, Arianna Scuola Superiore Sant'Anna
 Dario, Paolo Scuola Superiore Sant'Anna

FrC01	Gratte Ciel 1
Adaptive and Parametric Filtering in Biomedical Signals II (Oral Session)	
Chair: Carrault, Guy	Univ. de Rennes 1
14:30-14:45	FrC01.1
Blind Dereverberation for Fmri Noise Based on SIMO Linear Prediction Method , pp. 2831-2834.	
Bao, Hua	Univ. of Texas at Dallas
Panahi, Issa	Univ. of Texas at Dallas
briggs, richard	UT southwestern
14:45-15:00	FrC01.2
Adaptive Time-Scale Feature Extraction in Electroencephalographic Responses to Transcranial Magnetic Stimulation , pp. 2835-2838.	
Harris, Arief R.	Univ. of Saarland
Schwerdtfeger, Karsten	Saarland Univ. Hospital
Luszpinski, Marie-Anne	Saarland Univ. Hospital
Sandvoss, Gisela	Saarland Univ. Hospital
Strauss, Daniel J.	Computl Diagnostics & Biocybernetics
15:00-15:15	FrC01.3
Inter and Intra-Hemispheric EEG Coherence Responses to Visual Stimulations , pp. 2839-2842.	
Cvetkovic, Dean	RMIT Univ.
Cosic, Irena	RMIT Univ.
15:15-15:30	FrC01.4
Experimental Testing of a Method for On-Line Identification of the Cerebrospinal Fluid System , pp. 2843-2846.	
Manchester, Ian	Umeå Univ.
Andersson, Kennet	Umeå Univ.
Eklund, Anders	Umeå Univ.
Shiriaev, Anton	Umeå Univ.
15:30-15:45	FrC01.5
Bandlimited Multiple Fourier Linear Combiner for Real-Time Tremor Compensation , pp. 2847-2850.	
Veluvolu, Kalyana C.	Nanyang Tech. Univ.
Tan, U-Xuan	Nanyang Tech. Univ. Singapore
Tun Latt, Win	Nanyang Tech. Univ.
Shee, Chengyap	Nanyang Tech. Univ.
Ang, Wei Tech	Nanyang Tech. Univ.
15:45-16:00	FrC01.6
An Automated Ocular Microtremor Feature Extraction Using the Gabor Thresholding Technique , pp. 2851-2854.	
Al-Kalbani, Mohammed	St.James's Hospital
Collins, Niamh	Trinity Coll. Dublin
Boyle, Gerard	St. James's Hospital
Hegarty, Fran	St.James's Hospital
Foran, Tim	St.James's Hospital
Sheahan, Noirin	St.James's Hospital
Coakley, Davis	Trinity Coll. Dublin
FrC02	Gratte Ciel 2
Signal Processing and Physiological System Modeling VI (Oral Session)	
Chair: Doessel, Olaf	Univ. of Karlsruhe
Co-Chair: Humeau, Anne	Groupe ISAIP-ESAIP and Univ. d'Angers
14:30-14:45	FrC02.1
Nonlinear, Multiple-Input Modeling of Cerebral Hemodynamics During Baseline and Hypercapnia in Young and Post-Menopausal Women , pp. 2855-2858.	
Mitsis, Georgios D.	National Tech. Univ. of Athens
Debert, Chantel T.	Univ. of Calgary
Hajo, Mahmoud I.	National Inst.
Marmarelis, Vasilis	Univ. of Southern California
Poulin, Marc J.	Univ. of Calgary
14:45-15:00	FrC02.2
Analysis of Hemodynamics of Intracranial Saccular Aneurysms , pp. 2859-2862.	
Szafrański, Krzysztof	Szczecin Univ. of Tech.
15:00-15:15	FrC02.3
Analysis of Pulse Waves in Intracranial Pressure , pp. 2863-2866.	
Jetzki, Stefanie	RWTH Aachen Univ.
Kiefer, Michael	Saarland Univ. Medical School
Eymann, Regina	Saarland Univ. medical school
Walter, Marian	RWTH Aachen Univ.
Leonhardt, Steffen	RWTH Aachen Univ.
15:15-15:30	FrC02.4
Ultrasound Emitter Localization in Heterogeneous Media , pp. 2867-2870.	
Flueckiger, Michael	ETH Zurich
Nelson, Bradley	ETH Zurich
15:30-15:45	FrC02.5
A New Noninvasive Approach to Detect the Artery's Pulsating Properties Via Tissue Control Method , pp. 2871-2874.	
Lin, Albert Chin-yuh	Feng Chia Univ.
Huang, Huang-Nan	Tunghai Univ.
Su, Yi-Chang	e-Med Biotech, Inc.
Shiu, Chih-Yuan	Feng Chia Univ.
Lin, Jui-Shan	China Medical Univ.

15:45-16:00 FrC02.6
Propagation Route Estimation of Heart Sound through Simultaneous Multi-Site Recording on the Chest Wall, pp. 2875-2878.
 Kawamura, Yoko Gifu Univ.
 Yokota, Yasunari Gifu Univ.
 Nogata, Fumio Gifu Univ.

FrC03 Bellecour 1

MRI: Novel Applications I (Oral Session)
 Chair: Shungu, Dikoma C. Weill Medical Coll. of Cornell Univ.
 Co-Chair: Kitney, Richard Ian Imperial Coll. London

14:30-14:45 FrC03.1

Characterization of Neuro-Endocrine Tumors in an Athymic Nude Mouse Model Using Dedicated Synchronization Strategies for T2-Weighted MR Imaging at 7T, pp. 2879-2882.
 Baboi, Loredana Maria Univ. de Lyon, Univ. Lyon 1, INSA-Lyon
 MILOT, Laurent Univ. de Lyon, Univ. Lyon 1, INSA-Lyon
 LARTIZIEN, Carole Univ. de Lyon, Univ. Lyon 1, INSA-Lyon
 ROCHE, Colette Faculté de médecine RTH Laennec
 SCOAZEC, Jean Yves Faculté de médecine RTH Laennec
 PILLEUL, Frank Univ. de Lyon, Univ. Lyon 1, INSA-Lyon
 BEUF, olivier Univ. de Lyon, Univ. Lyon 1, INSA-Lyon

14:45-15:00 FrC03.2

Cartilage Thickness Visualization Using 2D WearMaps and TrackBack, pp. 2883-2886.
 Poh, Chueh-Loo Imperial Coll. London
 Kitney, Richard Ian Imperial Coll.

15:00-15:15 FrC03.3

Determination of Macromolecular Concentration Following Direct Infusion into Hydrogel Using Contrast-Enhanced MRI, pp. 2887-2890.
 Chen, Xiaoming Univ. of Florida
 Astary, Garrett Univ. of Florida
 Mareci, Thomas Univ. of Florida
 Sarntinoranont, Malisa Univ. of Florida

15:15-15:30 FrC03.4

Lung Liquid Clearance in Newborn Lamb: MRI Methods and Preliminary Results, pp. 2891-2894.
 Viard, Romain CHRU Lille
 Vermandel, Maximilien Univ. de Lille
 Tourneux, Pierre CHU Amiens
 Storme, Laurent CHRU Lille
 Rousseau, Jean INSERM - Univ. de Lille 2

15:30-15:45 FrC03.5

A Robust Method for Assessment of Iron Overload in Liver by Magnetic Resonance Imaging, pp. 2895-2898.
 Positano, Vincenzo CNR Inst. of Clinical Physiology
 Salani, Benedetta Univ. of Pisa
 Scattini, Barbara Inst. of Clinical Physiology
 Santarelli, Maria Filomena CNR
 Ramazzotti, Anna CNR Inst. of Clinical Physiology
 Pepe, Alessia CNR Inst. of Clinical Physiology
 Lombardi, Massimo CNR Inst. of Clinical Physiology
 Landini, Luigi Univ. of Pisa

15:45-16:00 FrC03.6

Evidence of Brain Mitochondrial Activities after Oxygen Inhalation by 31P Magnetic Resonance Spectroscopy at 3T, pp. 2899-2902.
 Wu, RenHua Shantou Univ. Medical Coll.
 Julien, Poublanc Univ. of Toronto
 Danny, Mandell Univ. of Toronto
 Garry, Detzler Univ. of Toronto
 Adrian, Crawley Univ. of Toronto
 Qing-Chun, Qiu Shantou Univ. Medical Coll.
 terBrugge, Karel Univ. of Toronto
 Mikulis, David The Toronto Western Hospital, Univ. of Toronto

FrC04 Bellecour 3

CT : Sampling and Truncation (Oral Session)
 Co-Chair: PEYRIN, Françoise UMR CNRS 5220; Inserm U630; INSA-Lyon; ESFR

14:30-14:45 FrC04.1

Estimation of Missing Data Using Windowed Linear Prediction in Laterally Truncated Projections in Cone-Beam CT, pp. 2903-2906.
 K. P., Anoop Indian Inst. of Science
 K., Rajgopal Indian Inst. of Science

14:45-15:00 FrC04.2

CT Truncation Artifact Removal Using Water-Equivalent Thicknesses Derived from Truncated Projection Data, pp. 2907-2911.
 Maltz, Jonathan S. Siemens Medical & Berkeley Lab.
 Bose, Supratik Siemens Medical Solutions (USA), Inc.
 Shukla, Himanshu Siemens Medical Solutions (USA), Inc.
 Bani-Hashemi, Ali Siemens Medical Solutions USA, Inc.

15:00-15:15		FrC04.3
Multiresolution Local Tomography in Dental Radiology Using Wavelets , pp. 2912-2915.		
Niinimäki, Kati		Univ. of Kuopio
Siltanen, Samuli		Univ. of Tampere
Kolehmainen, Ville		Univ. of Kuopio
15:15-15:30		FrC04.4
Comparison of Analytical and Algebraic 2D Tomographic Reconstruction Approaches for Irregularly Sampled MicroCT Data , pp. 2916-2919.		
valton, solene		INSA-Lyon
Berard, Philippe		Univ. Univ. de Sherbrooke
Riendeau, Joel		Univ. Univ. de Sherbrooke
thibaudeau, christian		Univ. Univ. de Sherbrooke
Lecomte, Roger		Univ. de Sherbrooke
SAPPEY-MARINIER, Dominique		Univ. Claude Bernard - Lyon1
PEYRIN, Françoise		UMR CNRS 5220; Inserm U630; INSA-Lyon; ESRF
15:30-15:45		FrC04.5
Monte Carlo Simulations Verifying Sampling Schemes in Multislice Mode PET , pp. 2920-2923.		
grondin, yannick		Lab. TIMC/IMAG (Univ. Joseph Fourier - CNRS UMR 5525)
Desbat, Laurent		Grenoble Univ. (UJF)
15:45-16:00		FrC04.6
Influence of a Longitudinal Motion on Image Quality with a 64-Channel CT Scanner , pp. 2924-2927.		
GROSJEAN, Romain		IADI, UHP-Inserm ERI 13
GUERRA, Rui Matias		IADI, UHP-Inserm ERI 13
SAUER, Benoit		IADI, UHP-Inserm ERI 13
BLUM, Alain		Hopital Central
HUBERT, Jacques		IADI, UHP-Inserm ERI 13 and Urology Department
FELBLINGER, Jacques		IADI, UHP-Inserm ERI 13
FrC05		Tête d'Or Lounge
Instrumentation and Systems for Diagnosis and Clinical Management I (Oral Session)		
Co-Chair: SCHURR, MARC O.		NOVINEON
14:30-14:45		FrC05.1
First-Aid Sensor System: New Methods for Single-Point Detection and Analysis of Vital Parameters Such As Pulse and Respiration , pp. 2928-2931.		
Jaeger, Marc		Univ. of Karlsruhe
Mueller, Marco		Univ. of Karlsruhe
Wettach, Daniel		Univ. of Karlsruhe
Oezkan, Timur		Univ. Hospital Heidelberg
Motsch, Johann		Univ. Hospital Heidelberg
Schauer, Thomas		Univ. of Berlin
Jaeger, Robert		Univ. of Karlsruhe
Bolz, Armin		Univ. of Karlsruhe
14:45-15:00		FrC05.2
Point-Of-Care Noninvasive Hemoglobin Determination Using Fiber Optic Reflectance Spectroscopy , pp. 2932-2935.		
Jay, Gregory		Brown Univ.
Racht, Justin		Brown Univ.
McMurdy, John		Brown Univ.
Mathews, Zara		Brown Univ.
Hughes, Ashley		Brown Univ.
Suner, Selim		Brown Univ.
Crawford, Gregory		Brown Univ.
15:00-15:15		FrC05.3
A Modified Cardiac Stabilizer Used for Recording Electrograms , pp. 2936-2939.		
Wtorek, Jerzy		Gdansk Univ. of Tech.
Bujnowski, Adam		Gdansk Univ. of Tech.
Nowakowski, Antoni Z.		Gdansk Univ. of Tech.
15:15-15:30		FrC05.4
A Portable Neurological Monitor for Use in Cognitive Function Studies , pp. 2940-2943.		
Sobolewski, Rory		Univ. Coll. Dublin
OMullane, Brian		Univ. Coll. Dublin
Knapp, Ben		Univ. Coll. Dublin
Reilly, Richard		Univ. Coll. Dublin
15:30-15:45		FrC05.5
Implementation of Electrochemiluminescence Microanalysis in PCB Technology , pp. 2944-2947.		
Pittet, Patrick		Univ. Claude Bernard Lyon 1
LU, Guo-Neng		Univ. Claude Bernard Lyon 1
Galvan, Jean-Marc		CPE
Ferrigno, Rosaria		Univ. Claude Bernard Lyon 1
STEPHAN, Khaled		Univ. Claude Bernard Lyon 1
BLUM, Loic		Univ. Claude Bernard Lyon 1
Leca-Bouvier, Béatrice		Univ. Claude Bernard Lyon 1

15:45-16:00 FrC05.6
Magneto-resistive Sensors in a New Biomagnetic Instrumentation for Applications in Gastroenterology, pp. 2948-2951.
 Paixão, Fabiano Carlos Univ. Estadual Paulista - UNESP
 Miranda da Silva, Fabiano Univ. de São Paulo
 Miranda, José Ricardo A IBB - Univ. Estadual Paulista
 Baffa, Oswaldo FFCLRP-Univ. of Sao Paulo

FrC06 Tête d'Or 2
Optical and Photonics Sensors and Systems (Oral Session)

Chair: Sadowski, Janusz VTT Tech. Res. Centre
 Co-Chair: Guillemaud, Regis CEA Léti MINATEC

14:30-14:45 FrC06.1

Development of a New Splanchnic Perfusion Sensor, pp. 2952-2955.
 Hickey, Michelle City Univ.
 Kyriacou, Panayiotis City Univ.

14:45-15:00 FrC06.2

Identification of Cardiac Events by Optical Vibrocardiography: Comparison with Phonocardiography, pp. 2956-2959.
 De Melis, Mirko Univ. Pol. delle marche
 morbiducci, umberto Univ. Pol. delle marche
 scalise, lorenzo Univ. Pol. delle marche

15:00-15:15 FrC06.3

Optical Dialysis Adequacy Sensor: Wavelength Dependence of the Ultra Violet Absorbance in the Spent Dialysate to the Removed Solutes, pp. 2960-2963.
 Jerotskaja, Jana Tallinn Univ. of Tech.
 Lauri, Kai Tallinn Univ. of Tech.
 Tanner, Risto National Inst. of Chemical Physics and Biophysics
 Luman, Merike North-Estonian Regional Hospital
 Fridolin, Ivo Centre of Biomedical Engineering

15:15-15:30 FrC06.4

A New Non-Invasive Method for Measuring Blood Glucose Using Instantaneous Differential Near Infrared Spectrophotometry, pp. 2964-2967.

Yamakoshi, Yasuhiro TYT Inst. of Tech. Co., Ltd.
 Ogawa, Mitsuhiro Kanazawa-Univ.
 Yamakoshi, Takehiro Kanazawa Univ.
 Satoh, Makoto Kanazawa-Univ.
 Nogawa, Masamichi Kanazawa Univ.
 Tanaka, Shinobu Kanazawa Univ.
 Tamura, Toshiyo Chiba Univ. Graduate School of Engineering
 Rolfe, Peter Oxford BioHorizons Ltd
 Yamakoshi, Ken-ichi Kanazawa Univ.

15:30-15:45 FrC06.5

PCB/Polymer Based Micro-Fluidic System for NMR Spectroscopy for Nanoliters Sample Volume, pp. 2968-2971.
 Deman, Anne-Laure Univ. Lyon1 Claude Bernard
 Chateaux, Jean-François Univ. Lyon1 Claude Bernard
 Pasquet, Guillaume Univ. Lyon1 Claude Bernard
 Fenet, Bernard Univ. Lyon1 Claude Bernard
 Morin, Pierre Univ. Lyon1 Claude Bernard

15:45-16:00 FrC06.6

Modeling of Selective Photon Capture for Collection of Fluorescence Emitted from Dermally-Implanted Microparticle Sensors, pp. 2972-2975.
 McShane, Mike Texas A&M Univ.
 Long, Ruiqi Texas A&M Univ.

FrC07 Bellecour 2
Cardiovascular Models (Oral Session)

Chair: Chbat, Nicolas Philips Res. North America
 Co-Chair: Clark, John W. Rice Univ.

14:30-14:45 FrC07.1

Study of Ventricular Interaction During Pulmonary Embolism Using Clinical Identification in a Minimum Cardiovascular System Model, pp. 2976-2979.

Desaive, Thomas Univ. of Liege
 Ghuysen, Alexandre Univ. of Liege
 Lambermont, Bernard Univ. of Liege
 Kolh, Philippe Univ. of Liege
 Dauby, Pierre Univ. of Liege
 Starfinger, Christina Univ. of Canterbury
 Hann, Christopher E Univ. of Canterbury
 Chase, J. Geoffrey Univ. of Canterbury
 Shaw, Geoffrey M Christchurch Hospital

14:45-15:00 FrC07.2

Arterio-Venous Fistula: Two Cases Realistic Numerical Blood Flow Simulations, pp. 2980-2983.
 KHARBOUTLY, Zaher Univ. of Tech. of Compiègne - France
 TREUTENAERE, Jean-Marc Pol. Saint Côme
 CLAUDE, Isabelle Univ. of Tech. of Compiègne - France
 LEGALLAIS, Cecile Univ. of Tech. of Compiègne - France

15:00-15:15		FrC07.3
	Nonparametric Hammerstein Model Based Model Predictive Control for Heart Rate Regulation , pp. 2984-2987.	
	Su, Steven Weidong	Univ. of Tech. Sydney
	Huang, Shoudong	Univ. of Tech.
	Wang, Lu	Univ. of New South Wales
	Celler, Branko George	Univ. of New South Wales
	Savkin, Andrey	Univ. of New South Wales
	Guo, Ying	CSIRO
	Cheng, Teddy Man Lai	The Univ. of New South Wales
15:15-15:30		FrC07.4
	A Nonlinear Dynamic Model for Heart Rate Response to Treadmill Walking Exercise , pp. 2988-2991.	
	Cheng, Teddy Man Lai	The Univ. of New South Wales
	Savkin, Andrey	Univ. of New South Wales
	Celler, Branko George	Univ. of New South Wales
	Wang, Lu	Univ. of New South Wales
	Su, Steven Weidong	Univ. of Tech. Sydney
15:30-15:45		FrC07.5
	Fluid Resuscitation: Computer Simulation and Animal Experiments , pp. 2992-2995.	
	Dagan, Inon	Tel Aviv Univ.
	Gabay, Michal	Tel Aviv Univ.
	Barnea, Ofer	Tel Aviv Univ.
FrC08		Gratte Ciel Lounge
	Cultured Neuronal Networks and Neurorobotics (Oral Session)	
	Chair: Rutten, Wim	Univ. of twente
14:30-14:45		FrC08.1
	Embodying Cultured Networks with a Robotic Drawing Arm , pp. 2996-2999.	
	Bakkum, Douglas	Georgia Inst. of Tech.
	Chao, Zenas	Georgia Inst. of Tech.
	gamblen, philip	Univ. of Western Australia
	Ben-Ary, Guy	Univ. of Western Australia
	Shkolnik, Alexander	MIT
	DeMarse, Thomas B.	Univ. of Florida
	Potter, Steve	Georgia Inst. of Tech.
14:45-15:00		FrC08.2
	Latency Dependent Development of Related Firing Patterns in Cultured Neuronal Networks , pp. 3000-3003.	
	le Feber, Joost	Univ. of Twente
	Van Pelt, Jaap	Vrije Univ. Amsterdam
	Rutten, Wim	Univ. of twente
15:00-15:15		FrC08.3
	A Real-Time Closed-Loop Setup for Hybrid Neural Networks , pp. 3004-3007.	
	Bontorin, Guilherme	Univ. of Bordeaux1, IMS, Enseirb
	Renaud, Sylvie	Univ. of Bordeaux1, IMS, Enseirb
	Garenne, Andre	Univ. Bordeaux 2
	Alvado, Ludovic	Univ. of Bordeaux1, IMS, Enseirb
	Le Masson, Gwendal	Univ. of Bordeaux2, INSERM
	Tomas, Jean	Univ. of Bordeaux1, IMS, Enseirb
15:15-15:30		FrC08.4
	Activity Modulation Elicited by Electrical Stimulation in Networks of Dissociated Cortical Neurons , pp. 3008-3011.	
	Massobrio, Paolo	Univ. of Genova
	Baljon, Pieter Laurens	Univ. of Genova
	Maccione, Alessandro	Univ. of Genova
	Chiappalone, Michela	Italian Inst. of Tech.
	Martinoia, Sergio	Univ. of Genova
15:30-15:45		FrC08.5
	How Do TTX and AP5 Affect the Post-Recovery Neuronal Network Activity Synchronization? , pp. 3012-3015.	
	Esposti, Federico	Pol. di Milano
	Signorini, Maria G.	Pol. di Milano
	Lamanna, Jacopo	Pol. di Milano
	Gullo, Francesca	Univ. degli Studi di Milano-Bicocca
	Wanke, Enzo	Univ. degli Studi di Milano-Bicocca
15:45-16:00		FrC08.6
	A Biologically Inspired Modular Structure to Control the Sit-To-Stand Transfer of a Biped Robot , pp. 3016-3019.	
	Emadi Andani, Mehran	Univ. of Tehran
	Bahrami, Fariba	Univ. of Tehran
	Jabbedar, Parviz	Univ. of Tehran

FrC09	Gratte Ciel 3
Robotic Devices for Rehabilitation II (Oral Session)	
Chair: Patton, James (Jim) Co-Chair: Reinkensmeyer, David	Rehab Inst. Chicago & Northwestern U. Univ. of California
14:30-14:45	FrC09.1
Powered Ankle-Foot Prosthesis for the Improvement of Amputee Ambulation , pp. 3020-3026.	
Au, Samuel Herr, Hugh Weber, Jeff Martinez-Villalpando, Ernesto Carlos	MIT MIT MIT Biomechanics Lab. Massachusetts Inst. of Tech.
14:45-15:00	FrC09.2
Development of Robot Hand with Pneumatic Actuator and Construct of Master-Slave System , pp. 3027-3030.	
Nishino, Shinya Tsujiuchi, Nobutaka Koizumi, Takayuki Komatsubara, Hiroyuki Kudawara, Tatuwo Shimizu, Mikio	Doshisha Univ. Doshisha Univ. Doshisha Univ. Doshisha Univ. SQUSE Inc. SQUSE Inc.
15:00-15:15	FrC09.3
Simplified Analytical Dynamic Model for a Parallel Prosthetic Elbow , pp. 3031-3034.	
Mendoza Vazquez, Jose Rafael Escudero-Urbe, Apolo Z. Fernandez-Mulia, Raul	Inst. Nacional de Astrofisica Optica y Electronica Inst. Nacional de Astrofisica Inst. Tecnologico y de Estudios Superiores de Monterrey
15:15-15:30	FrC09.4
Controlling a Prosthetic Arm with a Throat Microphone , pp. 3035-3039.	
Mainardi, Elena Davalli, Angelo	Univ. of Ferrara INAIL Prosthesis Center
15:30-15:45	FrC09.5
EMG-Based Neuro-Fuzzy Control of a 4DOF Upper-Limb Power-Assist Exoskeleton , pp. 3040-3043.	
Kiguchi, Kazuo Imada, Yasunobu Liyanage, Manoj	Saga Univ. Saga Univ. Saga Univ.
15:45-16:00	FrC09.6
A Preliminary Study of MR Sickness Evaluation Using Visual Motion Aftereffect for Advanced Driver Assistance Systems , pp. 3044-3047.	
Nakajima, Sawako Ino, Shuichi Ifukube, Tohru	The Univ. of Tokyo The Univ. of Tokyo The Univ. of Tokyo
FrC10	Rhône 1
Clinical Engineering III (Oral Session)	
Co-Chair: George, Hanna	Imperial Coll. London
14:30-14:45	FrC10.1
A New Optimization Approach for the Calibration of an Ultrasound Probe Using a 3D Optical Localizer , pp. 3048-3051.	
Dardenne, Guillaume Gil Cano, Julio Daniel Hamitouche, Chafiaâ Stindel, Eric Roux, Christian	Ec. Nationale Supérieure des Télécommunications de Ec. Nationale Supérieure des Télécommunications de Bretagne Ec. Nationale Supérieure des Télécommunications de Bretagne Univ. de Bretagne Occidentale ENST Bretagne - INSERM
14:45-15:00	FrC10.2
Estimation of the Lactate Threshold Using Bioelectrical Impedance Spectroscopy: A New Noninvasive Method , pp. 3052-3055.	
Alvarenga, Renato Luiz de Souza, Marcio N.	Federal Univ. of Rio de Janeiro Federal Univ. of Rio de Janeiro
15:00-15:15	FrC10.3
Prediction of Poor Outcome Using Detector of Epileptiform EEG in ICU Patients Resuscitated after Cardiac Arrest , pp. 3056-3059.	
Ermes, Miikka Särkelä, Mika van Gils, Mark Wennervirta, Johanna Vakkuri, Anne Salmi, Tapani	VTT Tech. Res. Centre GE VTT Tech. Res. Centre of Finland Helsinki Univ. hospital Helsinki Univ. hospital Helsinki Univ. hospital
15:15-15:30	FrC10.4
Plugin for OsiriX: Mean Shift Segmentation , pp. 3060-3063.	
Vides, Silvia Azpiroz-leeahan, Joaquin Jimenez-Alaniz, Juan Ramon	Univ. Autonoma Metropolitana Univ. Autonoma Metropolitana Univ. Autonoma Metropolitana
15:30-15:45	FrC10.5
Employing Bending Beam Transducer Design and Statistical Algorithms to Develop a Clinical Real Time Tissue Compliance Mapping System , pp. 3064-3068.	
Fakhry, Morkos Bello, Fernando George, Hanna	Imperial Coll. London Imperial Coll. London Imperial Coll. London

15:45-16:00 FrC10.6
Balloon Folding Affects the Symmetry of Stent Deployment: Experimental and Computational Evidence, pp. 3069-3073.
 Narracott, Andrew James Univ. of Sheffield
 Lawford, Patricia Veronica Univ. of Sheffield
 Gunn, Julian Univ. of Sheffield
 Hose, David R. Univ. of Sheffield

FrC11 Tête d'Or 1

Telemedicine II (Oral Session)
 Co-Chair: Pattichis, Constantinos Univ. of Cyprus

14:30-14:45 FrC11.1

Advanced Medical Video Services through Context-Aware Medical Networks, pp. 3074-3077.
 Doukas, Charalampos Univ. of the Aegean
 Maglogiannis, Ilias Univ. of the Aegean
 Pliakas, Thomas Univ. of the Aegean

14:45-15:00 FrC11.2

Image Processing Based Auto Focus System for Remote Eye Diagnostics, pp. 3078-3081.
 Gierl, Christian Univ. of Applied Sciences Ravensburg-Weingarten
 Voos, Holger HS Ravensburg-Weingarten
 Toshiaki, Kondo Sirindhorn International Inst. of Tech.
 Kongprawechnon, Waree Sirindhorn International Inst. of Tech.
 Phoojaruenchanachai, Suthee National Electronics and Computer Tech. Center

15:00-15:15 FrC11.3

A Cross-Layer Approach for Wireless Medical Video Streaming in Robotic Teleultrasonography, pp. 3082-3085.
 Martini, Maria Univ. of Bologna
 Istepanian, Robert Kingston Univ.
 Mazzotti, Matteo Univ. of Bologna
 Philip, Nada Kingston Univ.

15:15-15:30 FrC11.4

Human Perception Based Video Preprocessing for Telesurgery, pp. 3086-3089.
 Xu, Jian Univ. of Pittsburgh
 Sciabassi, Robert Univ. of Pittsburgh
 Liu, Qiang Univ. of Pittsburgh
 Sun, Mingui Univ. of Pittsburgh

15:30-15:45 FrC11.5

PDA-Based System with Teleradiology and Image Analysis Capabilities, pp. 3090-3093.
 Georgiadis, Pantelis Univ. of Patras
 Cavouras, Dionysios Tech. Educational Inst. of Athens
 Daskalakis, Antonis Medical Image Processing and Analysis (M.I.P.A) Group,Lab.
 Koralia, Sifaki 251 General Hellenic Airforce Hospital
 Malamas, Menelaos 251 General Hellenic Airforce Hospital
 Nikiforidis, George Medical School, Univ. of Patras
 Solomou, Ekaterini School of Medicine, Univ. of Patras

15:45-16:00 FrC11.6

A Tele-Ultrasound System for Real-Time Medical Imaging in Resource-Limited Settings, pp. 3094-3097.
 Pyke, Josh Dartmouth Coll.
 Hart, Michael Dartmouth Coll.
 Popov, Veljko Dartmouth Coll.
 Harris, Robert D. Dartmouth-Hitchcock Medical Center
 McGrath, Susan Dartmouth Coll.

FrC12 Rhône 2

Education for Biomedical Engineering Professionals – Crossing Boundaries between Disciplines I (Minisymposium)
 Chair: Blagosklonov, Oleg CHU Jean Minjoz
 Co-Chair: Reumann, Matthias Univ. Karlsruhe (TH)
 Organizer: Blagosklonov, Oleg CHU Jean Minjoz

14:30-14:45 FrC12.1

ISIFC – Dual Biomedical Engineering School (I), pp. 3098-3101.
 Butterlin, Nadia Univ. of Franche-Comte
 Duffaud, Jacques Univ. of Franche-Comte
 Soto-Romero, Georges FEMTO-ST
 Blagosklonov, Oleg CHU Jean Minjoz

14:45-15:00 FrC12.2

Clinical Engineering Education in France Situation in 2007 and Evolution, pp. 3102-3105.
 Donadey, Alain Compiegne Univ. of Tech.
 Hadjes, Pierre Compiegne Univ. of Tech.
 Langevin, François Compiegne Univ. of Tech.

15:00-15:15 FrC12.3

How to Become a Graduate Biomedical Engineer in France (I), pp. 3106-3108.
 Rieu, Regis ESIL
 Plihon, Barbara ESIL

15:15-15:30 FrC12.4

Biomedical Engineer: An International Job (I), pp. 3109-3111.
 Crolet, Jean-Marie Univ. of Franche-Comte

15:30-15:45		FrC12.5
<i>A Comprehensive Training Approach for Biomedical Engineers in Biochemistry and in Vitro Diagnostics Technology</i> , pp. 3112-3115.		
Spyropoulos, Vasileios		Tech. Education Inst. of Athens
Tzavaras, Aris		Tech. Educational Inst. of Athens
15:45-16:00		FrC12.6
<i>European Virtual Campus for Biomedical Engineering EVICAB</i> , pp. 3116-3118.		
Malmivuo, Jaakko		Tampere Univ. of Tech.
Nousiainen, Juha Jaakko Olavi		Tampere Univ. of Tech.
Lindroos, Kari		Tampere Univ. of Tech.
FrC13		Roseraie 1,2
Innovations and Entrepreneurship in Bioengineering (Minisymposium)		
Chair: Betker, Aimee L.		Univ. of Manitoba
Co-Chair: Summers, Ronald		Loughborough Univ.
Organizer: Betker, Aimee L.		Univ. of Manitoba
14:30-14:45		FrC13.1
<i>Innovations and Entrepreneurship in Bioengineering - II (I)</i> , pp. 3119-3119.		
Betker, Aimee L.		Univ. of Manitoba
Summers, Ronald		Loughborough Univ.
FrP2A1		Forum 5&6
Signal Pattern Classification in Biomedical Signals V (Poster Session)		
16:30-17:30		FrP2A1.1
<i>Classification of EEG Signals Using a Genetic Based Machine Learning Classifier</i> , pp. 3120-3123.		
Skinner, Brad		Univ. of Tech. Sydney
Nguyen, Hung		Univ. of Tech. Sydney
Liu, Dikai		Univ. of Tech. Sydney
16:30-17:30		FrP2A1.2
<i>Time-Variant Spatial Filtering for Motor Imagery Classification</i> , pp. 3124-3127.		
Zhang, Haihong		Inst. for Infocomm Res.
Wang, Chuanchu		Inst. for Infocomm Res.
Guan, Cuntai		Inst. for Infocomm Res.
16:30-17:30		FrP2A1.3
<i>Limited Receptive Area Neural Classifier for Recognition of Swallowing Sounds Using Continuous Wavelet Transform</i> , pp. 3128-3131.		
Makeyev, Oleksandr		Clarkson Univ.
Sazonov, Edward		Clarkson Univ.
Schuckers, Stephanie		Clarkson Univ.
Lopez-Meyer, Paulo		Clarkson Univ.
Melanson, Ed		Univ. of Colorado at Denver
Neuman, Michael		Michigan Tech. Univ.
16:30-17:30		FrP2A1.4
<i>Morphological Heart Arrhythmia Classification Using Hermitian Model of Higher-Order Statistics</i> , pp. 3132-3135.		
Karimifard, Saeed		Tehran Univ. of Medical Science
Ahmadian, Alireza		Tehran Univ. of Medical Sciences
16:30-17:30		FrP2A1.5
<i>Different Learning Paradigms for the Classification of Melanoid Skin Lesions Using Wavelets</i> , pp. 3136-3139.		
Surowka, Grzegorz		Jagiellonian Univ.
Grzesiak-Kope_., Katarzyna		The Faculty of Physics, Astronomy and Applied Computer
16:30-17:30		FrP2A1.6
<i>Detection of Hypoglycemic Episodes in Children with Type 1 Diabetes Using an Optimal Bayesian Neural Network Algorithm</i> , pp. 3140-3143.		
Nguyen, Hung		Univ. of Tech. Sydney
Ghevondian, Nejhdeh		AIMedics Pty Ltd
Nguyen, Son		Univ. of Tech. Sydney
Jones, Timothy		Princess Margaret Hospital for Children
16:30-17:30		FrP2A1.7
<i>Identification of Patellofemoral Pain Syndrome Using a Support Vector Machine Approach</i> , pp. 3144-3147.		
Lai, Tze Huei, Daniel		Univ. of Melbourne
Levinger, Pazit		La Trobe Univ.
Begg, Rezaul		Victoria Univ.
Gilleard, Wendy Lynne		Southern Cross Univ.
Palaniswami, Marimuthu		The Univ. of Melbourne
16:30-17:30		FrP2A1.8
<i>Pulse Image Recognition Using Fuzzy Neural Network</i> , pp. 3148-3151.		
Xu, Lisheng		The Chinese Univ. of Hong Kong
Meng, Max Q.-H.		The Chinese Univ. of Hong Kong
Wang, Kuanquan		Harbin Inst. of Tech.
16:30-17:30		FrP2A1.9
<i>The Power-Efficient Biomedical Acquisition System by Variable-Resolution Sigma-Delta Modulator</i> , pp. 3152-3155.		
Hsu, Chen-Ming		National Cheng Kung Univ. Department of Electrical Engineeri
Wang, Wei-Song		National Cheng Kung Univ. Department of Electrical Engineer
Luo, Ching-Hsing		National Cheng Kung Univ.

- 16:30-17:30 FrP2A1.10
New Approach to Quantitative Description of Deceleration of Fetal Heart Rate for the Patterns Classification, pp. 3156-3159.
 Labaj, Pawel The Silesian Univ. of Tech.
 Jezewski, Michal The Silesian Univ. of Tech.
 Matonia, Adam Inst. of Medical Tech. and Equipment
 Kupka, Tomasz Inst. of Medical Tech. and Equipment
 Jezewski, Janusz Inst. of Medical Tech. and Equipment
 Gacek, Adam Inst. of Medical Tech. and Equipment
- 16:30-17:30 FrP2A1.11
Investigation of the New Prediction Method for Ht Values During the Plasma Exchange, pp. 3160-3163.
 Nitta, Yoshinori The Univ. of Tokushima
 Akutagawa, Masatake The Univ. of Tokushima
 Miyamoto, Hiroshi The Univ. of Tokushima
 Okahisa, Toshiya The Univ. of Tokushima
 Ohnishi, Yoshiaki The Univ. of Tokushima
 Nishimura, Masaji The Univ. of Tokushima
 Nakane, Syunya The Univ. of Tokushima
 Kaji, Ryuji The Univ. of Tokushima
 Kinouchi, Yohsuke The Univ. of Tokushima
- 16:30-17:30 FrP2A1.12
Multimodal Function Optimization Based on the Survival of the Fitness Kind of the Evolution Strategy, pp. 3164-3167.
 Lee, Junghoon Yonsei Univ.
 Song, Sangha Yonsei Univ.
 Yang, Yongju yonsei Univ.
 Shim, Hun Yonsei Univ.
 Lee, Hyun Sook Sangji Univ.
 Lee, Kyoung Joung Yonsei Univ.
 Yoon, Young-ro Yonsei Univ.
- 16:30-17:30 FrP2A1.13
Wheeze Detection Using Cepstral Analysis in Gaussian Mixture Models, pp. 3168-3171.
 Jen-Chien, Chien National Taiwan Univ.
 Huey-Dong, Wu National Taiwan Univ. Hospital
 Chong, Fok-Ching National Taiwan Univ.
 Li, Chung-I Medical Group, Res. Center, Micro-Star Int'l.Co.,Ltd.,Jung-H
- 16:30-17:30 FrP2A1.14
Feature Selection for Swallowing Sounds Classification, pp. 3172-3175.
 Yadollahi, Azadeh Univ. of Manitoba
 Moussavi, Zahra Univ. of Manitoba
- 16:30-17:30 FrP2A1.15
Distinguishing Falls from Normal ADL Using Vertical Velocity Profiles, pp. 3176-3179.
 Bourke, Alan Univ. of Limerick
 O'Donovan, Karol Intel Corp.
 ÓLaighin, Gearóid National Univ. of Ireland, Galway
- 16:30-17:30 FrP2A1.16
An Efficient Piecewise Modeling of ECG Signals Based on Hermitian Basis Functions, pp. 3180-3183.
 Ahmadian, Alireza Tehran Univ. of Medical Sciences
 Karimifard, Saeed Tehran Univ. of Medical Science
 Sadoughi Quchan Atigh, Hamid Reza tehran Univ. of medical sciences
 Abdoli, Mehrsima Univ.
- 16:30-17:30 FrP2A1.17
Additive and Multiplicative Noise Reduction by Back Propagation Neural Network, pp. 3184-3187.
 Chen, Yongjian The Univ. of Tokushima
 Akutagawa, Masatake The Univ. of Tokushima
 Katayama, Masato The Univ. of Tokushima
 Zhang, Qinyu ShenZhen Graduate School, Harbin Inst. of Tech. ShenZh
 Kinouchi, Yohsuke The Univ. of Tokushima
- 16:30-17:30 FrP2A1.18
Automated Estimation of Sedation Depth from the EEG, pp. 3188-3191.
 Greene, Barry R. Univ. Coll. Cork
 Mahon, Pdraig Cork Univ. Hospital
 McNamara, Brian Cork Univ. Hospital
 Boylan, Geraldine Univ. Coll. Cork
 Shorten, George Cork Univ. Hospital
- 16:30-17:30 FrP2A1.19
Real-Time Daily Activity Classification with Wireless Sensor Networks Using Hidden Markov Model, pp. 3192-3195.
 He, Jin Michigan Tech. Univ.
 Li, Huaming Michigan Tech. Univ.
 Tan, Jindong Michigan Tech. Univ.
- 16:30-17:30 FrP2A1.20
Electrocardiogram QRS Detection Using Multiscale Filtering Based on Mathematical Morphology, pp. 3196-3199.
 Zhang, Fei National Univ. of Singapore
 Lian, Yong National Univ. of Singapore

16:30-17:30		FrP2A1.21
	Fast Automatic Template Matching for Spike Sorting Based on Davies-Bouldin Validation Indices , pp. 3200-3203.	
	Sato, Takashi	The Univ. of Tokyo
	Suzuki, Takafumi	The Univ. of Tokyo
	Mabuchi, Kunihiko	Univ. of Tokyo
16:30-17:30		FrP2A1.22
	SVM and Neural Networks Comparison in Mammographic CAD , pp. 3204-3207.	
	García-Orellana, Carlos J.	Univ. of Extremadura
	Gallardo-Caballero, Ramon	Univ. of Extremadura
	Macías-Macías, Miguel	Univ. of Extremadura
	González-Velasco, Horacio	Univ. of Extremadura
16:30-17:30		FrP2A1.23
	Evaluation of Electrocardiogram Beat Detection Algorithms: Patient Specific versus Generic Training , pp. 3208-3211.	
	Last, Thorsten	Univ. of Ulster at Jordanstown
	Nugent, Chris	Univ. of Ulster
	Owens, Frank	Univ. of Ulster
16:30-17:30		FrP2A1.24
	A Dynamic Multi-Channel Decision-Fusion Strategy to Classify Differential Brain Activity , pp. 3212-3215.	
	Kook, Hyunseok	Southern Illinois Univ.
	Gupta, Lalit	Southern Illinois Univ.
	Kota, Srinivas	Southern Illinois Univ.
	Molfese, Dennis	Univ. of Louisville
16:30-17:30		FrP2A1.25
	Controlling Blood Glucose Levels in Diabetics by Neural Network Predictor , pp. 3216-3219.	
	Baghdadi, Golnaz	Shahed Univ.
	Motie Nasrabadi, Ali	Shahed Univ.
16:30-17:30		FrP2A1.26
	Brain-Computer Interface Analysis Using Continuous Wavelet Transform and Adaptive Neuro-Fuzzy Classifier , pp. 3220-3223.	
	Darvishi, Sam	Univ. of Tech. Sydney
	Al-Ani, Ahmed	Univ. of Tech. Sydney
16:30-17:30		FrP2A1.27
	Speed Estimation from a Tri-Axial Accelerometer Using Neural Networks , pp. 3224-3227.	
	Song, Yoonseon	Electronics and Telecommunications Res. Inst.
	Shin, Seungchul	ETRI
	Kim, Seunghwan	Electronics & Telecom Res. Inst.
	Lee, Doheon	Korea Advanced Inst. of Science and Tech.
	Lee, Kwang Hyung	Korea Advanced Inst. of Science and Tech.
16:30-17:30		FrP2A1.28
	A Support System for ECG Analysis Based on Hidden Markov Models , pp. 3228-3231.	
	THOMAS, Julien	LORIA
	ROSE, Cedric	LORIA
	Charpillet, François	Loria
16:30-17:30		FrP2A1.29
	Factored Interval Particle Filtering for Gait Analysis , pp. 3232-3235.	
	Saboune, Jamal	LORIA
	ROSE, Cedric	LORIA
	Charpillet, François	Loria
16:30-17:30		FrP2A1.30
	Neural Network Based Near Lossless Compression of EEG Signals with Non Uniform Quantization , pp. 3236-3240.	
	Natarajan, Sriraam	SSN Coll. of Engineering
16:30-17:30		FrP2A1.31
	Continuous Detection of Motor Imagery in a Four-Class Asynchronous BCI , pp. 3241-3244.	
	Banan Sadeghian, Elnaz	Amir Kabir Univ. of Tech. (Pol. Tehran),
	Moradi, Mohammad Hassan	Amirkabir Univ. of Tech.
16:30-17:30		FrP2A1.32
	Modeling Isometric Force Response Using Fuzzy Set Theory , pp. 3245-3248.	
	Stitt, Joseph	Pennsylvania State Univ.
	Newell, Karl	Pennsylvania State Univ.
16:30-17:30		FrP2A1.33
	Modified Ant Colony Clustering Method in Long-Term Electrocardiogram Processing , pp. 3249-3252.	
	Bursa, Miroslav	Czech Tech. Univ. in Prague
	Lhotska, Lenka	Czech Tech. Univ. in Prague
16:30-17:30		FrP2A1.34
	Vocal Folds Disorder Detection Using Pattern Recognition Methods , pp. 3253-3256.	
	Wang, Jianglin	Changwon National Univ.
	Jo, Cheolwoo	Changwon National Univ.
16:30-17:30		FrP2A1.35
	Algorithm for Classifying Arrhythmia Using Extreme Learning Machine and Principal Component Analysis , pp. 3257-3260.	
	Kim, Jinkwon	Yonsei Univ.
	Shin, Hang Sik	Yonsei Univ.
	Lee, Yonwook	Yonsei Univ.
	Lee, Myounggho	Yonsei Univ.

16:30-17:30 FrP2A1.36
Estimation of Bio-Signal Based on Human Motion for Integrated Visualization of Daily-Life, pp. 3261-3265.
 Umetani, Tomohiro Nagoya City Univ.
 Matsukawa, Tsuyoshi Nagoya City Univ.
 Yokoyama, Kiyoko Nagoya City Univ.

FrP2A2 Forum 5&6
Adaptive and Parametric Filtering in Biomedical Signals III (Poster Session)

16:30-17:30 FrP2A2.1
Application of the Directed Transfer Function Method to the Study of the Propagation of Epilepsy Neural Information, pp. 3266-3269.
 Ge, Manling Hebei Univ. of Tech.
 Jiang, Xiaochi Hebei Univ. of Tech.
 Qin, Bai Beijing Neural Surgical Inst.
 Yang, Shuo Hebei Univ. of Tech.
 Justin, Gusphyl Univ. of Pittsburgh
 Yan, Weili Hebei Univ. of Tech.

16:30-17:30 FrP2A2.2
A Bayesian Approach for the Estimation of AR Coefficients from Noisy Biomedical Data, pp. 3270-3273.
 Oikonomou, Vangelis Univ. of Ioannina
 Fotiadis, Dimitrios I. Univ. of Ioannina

16:30-17:30 FrP2A2.3
Selection of Floating-Point or Fixed-Point for Adaptive Noise Canceller in Somatosensory Evoked Potential Measurement, pp. 3274-3277.
 Chong Fei, Shen Chinese Acad. of Medical Sciences
 Liu, Hongtao The Univ. of Hong Kong
 Xie, XB Inst. of Biomedical Engineering, Chinese Acad. of Medical
 Luk, KDK Department of Orthopaedics and Traumatology, The Univ. of H
 Hu, Yong The Univ. of Hong Kong

16:30-17:30 FrP2A2.4
Adaptive Noise Canceling of Electrocardiogram Artifacts in Single Channel Electroencephalogram, pp. 3278-3281.
 Cho, Sung Pil Yonsei Univ.
 Song, Mi Hye Yonsei Univ.
 Park, Young Cheol Yonsei Univ.
 Choi, Ho Seon Daewon Science Coll.
 Lee, Kyoung Joung Yonsei Univ.

16:30-17:30 FrP2A2.5
The Novel Method for the Fetal Electrocardiogram Extraction from the Abdominal Signal, pp. 3282-3284.
 Song, Mi Hye Yonsei Univ.
 Cho, Sung Pil Yonsei Univ.
 Park, Ho Dong Yonsei Univ.
 Lee, Kyoung Joung Yonsei Univ.

16:30-17:30 FrP2A2.6
Motion Artifact Reduction in Blood Pressure Signals Using Adaptive Digital Filter with a Capacitive Sensor, pp. 3285-3287.
 Choi, Hyun Seok Yonsei Univ.
 Park, Ho Dong Yonsei Univ.
 Lee, Kyoung Joung Yonsei Univ.

16:30-17:30 FrP2A2.7
Evaluation of On-Line Bradycardia Boundary Detectors from Neonatal Clinical Data, pp. 3288-3291.
 Portet, Francois Univ. of Aberdeen
 Gao, Feng Univ. of Aberdeen
 Hunter, Jim Univ. of Aberdeen
 Sripada, Somayajulu Univ. of Aberdeen

16:30-17:30 FrP2A2.8
Towards Optimal Virtual Patients: An Online Adaptive Control Approach, pp. 3292-3295.
 Ghosh, Samik The Univ. of Texas at Arlington
 Young, Daniel Entelos Inc
 Gadkar, Kapil Entelos Inc
 Wennerberg, Leif Entelos Inc
 Basu, Kalyan The Univ. of Texas at Arlington

16:30-17:30 FrP2A2.9
Distortion Analysis of Subband Adaptive Filtering Methods for Fmri Active Noise Control Systems, pp. 3296-3299.
 Milani, Ali Univ. of Texas at Dallas
 Panahi, Issa Univ. of Texas at Dallas
 briggs, richard UT southwestern

16:30-17:30 FrP2A2.10
Assessment of Itakura Distance As a Valuable Feature for Computer-Aided Classification of Sleep Stages, pp. 3300-3303.
 Ebrahimi, farideh shahed Univ.
 Mikaili, Mohammad Head of Biomedical Eng. Dep. at Shahed Univ.
 Estrada, Edson The Univ. of Texas at El Paso
 Nazeran, Homayoun The Univ. of Texas at El Paso

16:30-17:30		FrP2A2.11
Eigenvector Methods for Analysis of Human PPG, ECG and EEG Signals , pp. 3304-3307.		
Ubeyli, Elif Derya		TOBB Ec. and Tech. Univ.
Cvetkovic, Dean		RMIT Univ.
Cosic, Irena		RMIT Univ.
16:30-17:30		FrP2A2.12
Predictive Modeling in Proteomics-Based Disease Detection , pp. 3308-3311.		
Pham, Tuan D.		James Cook Univ.
FrP2B1		Forum 5&6
Optical and Infrared Imaging (Poster Session)		
16:30-17:30		FrP2B1.1
Infrared Imager Requirements for Breast Cancer Detection , pp. 3312-3314.		
González, Francisco Javier		Univ. Autónoma de San Luis Potosi
16:30-17:30		FrP2B1.2
Enhancement of Infrared Image Based on the Retinex Theory , pp. 3315-3318.		
Li, Ying		Hebei Univ. of Tech.
Hou, Changzhi		Hebei Univ. of Tech.
Tian, Fu		Hebei Univ. of Tech.
Yu, Hongli		Hebei Univ. of Tech.
Guo, Lei		Hebei Univ. of Tech.
Xu, Guizhi		Hebei Univ. of Tech.
Shen, Xueqin		Hebei Univ. of Tech.
Yan, Weili		Hebei Univ. of Tech.
16:30-17:30		FrP2B1.3
A Study of Thermographic Diagnosis System and Imaging Algorithm by Distributed Thermal Data Using Single Infrared Sensor , pp. 3319-3322.		
Yoon, Se Jin		CR Tech. Co. Ltd.
Noh, Si Cheol		Inje Univ.
Choi, Heung Ho		Inje Univ.
16:30-17:30		FrP2B1.4
3D Modeling from Uncalibrated Color Images for a Complete Wound Assessment Tool , pp. 3323-3326.		
Albouy, Benjamin		Univ. d'Auvergne - Antenne Univ.
LUCAS, Yves		Orleans Univ.
TREUILLET, Sylvie		Univ. Blaise Pascal de Clermont-Ferrand
16:30-17:30		FrP2B1.5
Semiautomatic Detection and Evaluation of Autofluorescent Areas in Retinal Images , pp. 3327-3330.		
Kolar, Radim		Brno Univ. of Tech.
Jan, Jiri		Brno Univ. of Tech.
Robert, Laemmer		Friedrich-Alexander Univ. of Erlangen-Nürnberg
Jirik, Radovan		Brno Univ. of Tech.
16:30-17:30		FrP2B1.6
A High Speed Eye Tracking System with Robust Pupil Center Estimation Algorithm , pp. 3331-3334.		
Long, Xindian		Carnegie Mellon Univ.
Tonguz, Ozan		Carnegie Mellon Univ.
Kiderman, Alex		Neuro Kinetics, Inc.,
16:30-17:30		FrP2B1.7
Coupling X-Ray and Optical Tomography Systems for in Vivo Examination of Small Animals , pp. 3335-3338.		
da silva, anabela		CEA-LETI, MINATEC
bordy, thomas		CEA-LETI, MINATEC
debourdeau, mathieu		CEA-LETI, MINATEC
dinten, jean-marc		CEA-LETI, MINATEC
peltié, philippe		CEA-LETI, MINATEC
rizo, philippe		CEA-LETI, MINATEC
16:30-17:30		FrP2B1.8
Mueller Matrix Group Theory Formalism for Tissue Imaging Polarimetry Contrast Increase , pp. 3339-3342.		
Fanjul-Vélez, Félix		Univ. of Cantabria
Samperio-García, David		Univ. of Cantabria
Pereda-Cubián, David		Univ. of Cantabria
Arce-Diego, José L.		Univ. of Cantabria
16:30-17:30		FrP2B1.9
One-Step Needle Pose Estimation for Ultrasound Guided Biopsies , pp. 3343-3346.		
Khosravi, Sara		Univ. of British Columbia
Rohling, Robert		Univ. of British Columbia
Lawrence, Peter Donald		Univ. of British Columbia
16:30-17:30		FrP2B1.10
Quantitative Analysis Method for Evaluation of Optical Clearing of Skin , pp. 3347-3349.		
Yoon, Jinhee		Yonsei Univ.
Son, Taeyoon		Yonsei Univ.
Byungjo, Jung		Yonsei Univ.

16:30-17:30		FrP2B1.11
	Measurements of Scattering Changes Using Polarization-Sensitive Optical Coherence Tomography , pp. 3350-3352.	
	Lee, Sang-Won	Yonsei Univ.
	Kang, Jin-Ho	Yonsei Univ.
	Yoo, Ji-Yeong	Yonsei Univ.
	Kim, Beop-Min	Yonsei Univ.
16:30-17:30		FrP2B1.12
	Design and Implementation of an Acquisition System for the Photo-Motor Response of the Iris , pp. 3353-3356.	
	BOSNJAK, Antonio	Univ. de Carabobo.
	López, Carolina	Univ. de Carabobo.
	Chumbimuni, Roberto	Univ. de Carabobo.
	Villanueva, Carlos	Univ. de Carabobo.
	Eblen-Zajjur, Antonio	Univ. de Carabobo.
16:30-17:30		FrP2B1.13
	Inspection of Skin Hemodynamics with Hyper Spectral Camera , pp. 3357-3361.	
	Nagaoka, Takashi	Shizuoka Cancer Center
	S. Eikje, Natalja	Waseda Univ.
	Nakamura, Atsushi	Waseda Univ.
	Aizawa, Katsuo	Waseda Univ.
	Yoshio, Kiyohara	Shizuoka Cancer Center Hospital
	Fumihiko, Ichikawa	JFE Tech. Corp.
	Toshio, Yamazaki	Mitaka Kohki.Co., Ltd.
	Doi, Masao	Mitaka Kohki.Co., Ltd.
	Katsushige, Nakamura	Mitaka Kohki.Co., Ltd.
	Shinya, Otsubo	Waseda Univ.
	Sota, Takayuki	Science & Engineering, Waseda Univ.
16:30-17:30		FrP2B1.14
	Development of a Multi-Channel, Portable Optical Topography System , pp. 3362-3364.	
	Atsumori, Hirokazu	Hitachi, Ltd.
	Kiguchi, Masashi	Hitachi, Ltd.
	Obata, Akiko	Hitachi Ltd.
	Sato, Hiroki	Hitachi Ltd.
	Katura, Takusige	Hitachi Ltd.
	Utsugi, Kei	Systems Development Lab. Hitachi Ltd.
	Funane, Tsukasa	Hitachi, Ltd.
	Maki., Atsushi	Hitachi Ltd.
16:30-17:30		FrP2B1.15
	Superimposition of Thermal Imaging to Visual Imaging Using Homography , pp. 3365-3368.	
	Di Romualdo, Sandro	Univ. of Chieti-Pescara
	Merla, Arcangelo	ITAB - Inst. of Advanced Biomedical Tech. - Foundation
	Romani, Gian Luca	Univ. of Chieti-Pescara
16:30-17:30		FrP2B1.16
	A 3-Dimensional Vision System for Dental Applications , pp. 3369-3372.	
	Zhang, Li	Univ. of Bristol, UK
	Alemzadeh, Kazem	Univ. of Bristol
16:30-17:30		FrP2B1.17
	Infrared Imaging Analysis for Thermal Comfort Assessment , pp. 3373-3376.	
	De Oliveira, Fabrice	INSA Lyon, CSTB (Centre Scientifique du Batiment
	Moreau, Sophie	CSTB ("Centre Scientifique et Tech. du Bâtiment")
	Gehin, Claudine	INSA Lyon
	Dittmar, Andre	INSA Lyon
16:30-17:30		FrP2B1.18
	Evaluation of Different Marker Sets for Motion Artifact Reduction in Breast Dynamic Infrared Imaging , pp. 3377-3379.	
	Agostini, Valentina	Pol. di Torino
	Knafnitz, Marco	Pol. di Torino
	Molinari, Filippo	Pol. di Torino
16:30-17:30		FrP2B1.19
	Optical Imaging of Electrically Evoked Visual Signals in Cats: II. ICA "Harmonic Filtering" Noise Reduction , pp. 3380-3383.	
	Chen, Spencer Chin-Yu	Univ. of New South Wales
	Wong, Yan Tat	Univ. of New South Wales
	Hallum, Luke E.	Univ. of New South Wales
	Dommel, Norbert Brian	Univ. of New South Wales
	Cloherly, Shaun L	Univ. of New South Wales
	Morley, John William	Univ. of Western Sydney
	Suaning, Gregg	The Univ. of Newcastle
	Lovell, Nigel H	Univ. of New South Wales

FrP2B2**Neuroimaging (fMRI & MRI) (Poster Session)**

- Co-Chair: Baillet, Sylvain CNRS UPR640--LENA
- 16:30-17:30 FrP2B2.2
Neuroimaging of Event Related Brain Potentials (ERP) Using Fmri and Dipole Source Reconstruction, pp. 3384-3387.
eryilmaz, hamdi boun
Duru, Adil Deniz Bogazici Univ.
Parlak, burak boun
Ademoglu, Ahmet Bogazici Univ.
Demiralp, Tamer 0;stanbul Medical School
- 16:30-17:30 FrP2B2.3
Functional MR Imaging of the Spinal Cord in Cervical Spinal Cord Injury Patients by Acupuncture at LI 4 (Hegu) and LI 11(Quchi), pp. 3388-3391.
Chen, Yexi Shantou Univ. Medical Coll.
Kong, Kangmei Shantou Univ. Medical Coll.
Wang, Weidong The 2nd Hospital, Shantou Univ. Medical Coll.
Xie, Chuhai Shantou Univ. Medical Coll.
Wu, RenHua Shantou Univ. Medical Coll.
- 16:30-17:30 FrP2B2.4
Functional MR Imaging of the Cervical Spinal Cord by Use of 20Hz Functional Electrical Stimulation to Median Nerve, pp. 3392-3395.
Xie, Chuhai Shantou Univ. Medical Coll.
Kong, Kangmei Shantou Univ. Medical Coll.
Guan, Jitian Shantou Univ. Medical Coll.
Chen, Yexi Shantou Univ. Medical Coll.
Wu, RenHua Shantou Univ. Medical Coll.
- 16:30-17:30 FrP2B2.5
The BOLD Signal Response for Fluctuating Stimulation Images, pp. 3396-3399.
SAWADA, Keisuke Tokai Univ.
Magatani, Kazushige Tokai Univ.
- 16:30-17:30 FrP2B2.6
Comparison between Shifted Spearman Rank Correlation Test and SPM in Fmri, pp. 3400-3403.
DEWALLE, ANNE-SOPHIE Univ. des Sciences et Tech. de Lille
Betrouni, Nacim Inst. de Tech. Médicale
Steinling, Marc Univ. Hospital
Vermandel, Maximilien Univ. de Lille
Rousseau, Jean INSERM - Univ. de Lille 2
Vasseur, Christian USTL
- 16:30-17:30 FrP2B2.7
Joint Spatial Denoising and Active Region of Interest Delineation in Functional Magnetic Resonance Imaging, pp. 3404-3407.
Ng, Bernard Univ. of British Columbia (UBC)
Abugharbieh, Rafeef Univ. of British Columbia
Palmer, Samantha Jane Univ. of British Columbia
McKeown, Martin Univ. of British Columbia
- 16:30-17:30 FrP2B2.8
Application of Fractal Dimension Method of Functional MRI Time-Series to Limbic Dysregulation in Anxiety Study, pp. 3408-3410.
OLEJARCZYK, ELZBIETA Pol. Acad. of Sciences
- 16:30-17:30 FrP2B2.9
Pharmacological Fmri – Challenges in Analysing Drug-Induced Single-Event BOLD Responses, pp. 3411-3416.
Pohlmann, Andreas GlaxoSmithKline R&D Ltd
Barjat, Hervé GlaxoSmithKline R&D Ltd
Tilling, Lorna GlaxoSmithKline R&D Ltd
James, Michael F GlaxoSmithKline R&D Ltd
- 16:30-17:30 FrP2B2.10
Analysis and Realization of an Active Noise Control System on DSP Hardware Using an Fmri Bore Model, pp. 3417-3420.
Reddy, Rajiv Univ. of Texas at Dallas
Panahi, Issa Univ. of Texas at Dallas
briggs, richard UT southwestern
- 16:30-17:30 FrP2B2.11
New Strategies for Automated Differential Diagnosis of Degenerative Brain Disorders, pp. 3421-3425.
Spetsieris, Phoebe Center for Neurosciences, Feinstein Inst. for MedicalResearch
Ma, Yilong Center for Neurosciences, Feinstein Inst. for Medical Rsearch
Eckert, Thomas Center for Neurosciences, Feinstein Inst. for MedicalResearch
Dhawan, Vijay Center for Neurosciences, Feinstein Inst. for MedicalResearch
Eidelberg, David Center for Neurosciences, Feinstein Inst. for Medical Res.
- 16:30-17:30 FrP2B2.12
A Supervised Method to Assist the Diagnosis of Alzheimer's Disease Based on Functional Magnetic Resonance Imaging, pp. 3426-3429.
Tripoliti, Evanthia Univ. of Ioannina
Fotiadis, Dimitrios I. Univ. of Ioannina
Argyropoulou, Maria Medical School Univ. of Ioannina

16:30-17:30 FrP2B2.13
Activation Detection in Functional MRI Using Model-Free Technique Based on CCA-ICA Analysis, pp. 3430-3433.
 Mohamed, Nour eldin Cairo Univ. , faculty of engineering
 Mohamed, Ahmed Cairo Univ.
 Youssef, Abou-Bakr Cairo Univ.
 Kadah, Yasser M. Cairo Univ.

FrP2B3 Forum 5&6

Methods in Biological Imaging II (Poster Session)

Chair: Olivo-Marin, Jean-Christophe Inst. Pasteur

16:30-17:30 FrP2B3.1

Irradiation Adaptation to the Tumor Activity with the Help of Intensity-Modulated Radiation Therapy for Head and Neck Cancers, pp. 3434-3437.

Kubs, Fleur CRAN-UMR7039, Nancy-Univ. CNRS and Centre Alexis Vautrin an
 Aletti, Pierre CRAN-UMR7039, Nancy-Univ. CNRS and Centre Alexis Vautrin
 Wolf, Didier Nancy-Univ.
 Millasseau, Sandrine Varian Medical Systems
 Marchesi, Vincent Centre Alexis Vautrin

16:30-17:30 FrP2B3.2

Quantitative Parameters for the Assessment of Renal Scintigraphic Images, pp. 3438-3441.

Marcuzzo, Monica Univ. Federal do Rio Grande do Sul
 Masiero, Paulo Ricardo Hospital de Clinicas de Porto Alegre
 Scharcanski, Jacob UFRGS

16:30-17:30 FrP2B3.3

Determination of Skin Repigmentation Progression, pp. 3442-3445.

Nugroho, Hermawan Univ. Teknologi PETRONAS
 Ahmad Fadzil, Mohamad Hani Univ. Teknologi Petronas
 Yap, Vooi Voon Univ. Teknologi PETRONAS
 Shamsudin, Norashikin General Hospital Kuala Lumpur
 Hussein, Suraiya Hani General Hospital Kuala Lumpur

16:30-17:30 FrP2B3.4

Area Assessment of Psoriasis Lesion for PASI Scoring, pp. 3446-3449.

Ihtatho, Dani Univ. Teknologi PETRONAS
 Ahmad Fadzil, Mohamad Hani Univ. Teknologi Petronas
 M. Affandi, Azura Hospital Kuala Lumpur
 Hussein, Suraiya Hani General Hospital Kuala Lumpur

16:30-17:30 FrP2B3.5

Static Mechanical Assessment of Elastic Young's Modulus of Tissue Mimicking Material Used for Medical Imaging, pp. 3450-3453.

Duboeuf, Francois INSERM
 Liebgott, Hervé Univ. Lyon 1
 Basarab, Adrian INSA-Lyon
 Brusseau, Elisabeth UMR CNRS5515
 Delachartre, Philippe INSA-Lyon
 VRAY, DIDIER INSA-LYON, CNRS UMR5220, INSERM U630

16:30-17:30 FrP2B3.6

A Study on the Comparison of Median Filter Regularization Methods in Diffusion Tensor MRI, pp. 3454-3457.

Kim, Sunghee Yonsei Univ.
 Kwon, Kiwoon Yonsei Univ.
 Park, In Sung Yonsei Univ.
 Han, Bongsu Yonsei Univ.
 Kim, Dongyoun Yonsei Univ.

16:30-17:30 FrP2B3.7

"Absolute" Quantification in Magnetic Resonance Spectroscopy: Validation of a Clinical Protocol in Multiple Sclerosis, pp. 3458-3461.

Bagory, Matthieu Univ. de Lyon
 Durand-Dubief, Françoise Hôpital Neurologique
 IBARROLA, Danielle Centre National de la recherche Scientifique
 Confavreux, Christian Hôpital Neurologique Pierre Wertheimer
 SAPPEY-MARINIER, Dominique Univ. Claude Bernard - Lyon1

16:30-17:30 FrP2B3.8

The Complete Electrode Model for Imaging and Electrode Contact Compensation in Electrical Impedance Tomography, pp. 3462-3465.

Boverman, Gregory Rensselaer Pol. Inst.
 Kim, Bong-Seok Rensselaer Pol. Inst.
 isaacson, David Rensselaer Pol. Inst.
 Newell, Jonathan Rensselaer Pol. Inst.

16:30-17:30 FrP2B3.9

Multichannel Segmentation of Cdna Microarray Images Using the Bayes Classifier, pp. 3466-3469.

Giannakeas, Nikolaos Univ. of Ioannina
 Fotiadis, Dimitrios I. Univ. of Ioannina

16:30-17:30		FrP2B3.10
Quadrant Coverage Histogram: A New Method for Measuring Quality of Colonoscopic Procedures , pp. 3470-3473.		
Liu, Danyu		Iowa State Univ.
Cao, Yu		Iowa State Univ.
Tavanapong, Wallapak		Iowa State Univ.
Wong, Johnny S		Iowa State Univ.
Oh, JungHwan		Univ. of North Texas
de Groen, Petrus (Piet) Cornelius		Mayo Clinic
16:30-17:30		FrP2B3.11
A Brief History about Analytic Tools in Medical Imaging: Splines, Wavelets, Singularities and Partial Differential Equations , pp. 3474-3480.		
Demongeot, Jacques		Lab. TIMC-IMAG, UMR CNRS 5525
16:30-17:30		FrP2B3.12
Acoustic Thoracic Images for Transmitted Glottal Sounds , pp. 3481-3484.		
Charleston-Villalobos, Sonia		Univ. Autonoma Metropolitana
Gonzalez-Camarena, Ramon		Univ. Autonoma Metropolitana
Chi-Lem, Georgina		NATIONAL Inst. OF Res. DISEASES
Aljama-Corrales, Tomas		Univ. Autonoma Metropolitana
16:30-17:30		FrP2B3.13
Double Negative Metamaterials for Subsurface Detection , pp. 3485-3488.		
Boybay, Muhammed Said		Univ. of Waterloo
Ramahi, Omar		Univ. of Waterloo
16:30-17:30		FrP2B3.14
Evaluation of Autofocus Algorithms for Tuberculosis Microscopy , pp. 3489-3492.		
Russell, Megan		Univ. of the Witwatersrand
Douglas, Tania S		Univ. of Cape Town
16:30-17:30		FrP2B3.15
Blind Source Separation of Electrocardiographic Signals Using System Stability Criteria , pp. 3493-3495.		
Monzon, Jorge E.		Univ. Nacional del Nordeste
Pisarello, Maria Ines		Univ. Nacional del Nordeste
Alvarez Picaza, Carlos		Univ. Nacional del Nordeste
16:30-17:30		FrP2B3.16
Reduction of Metal Artifact in Three-Dimensional Computed Tomography (3D CT) with Dental Impression Materials , pp. 3496-3499.		
Park, Wonse		Dental hospital, Yonsei Univ.
FrP2C1		Forum 5&6
Therapeutic Devices III (Poster Session)		
16:30-17:30		FrP2C1.1
An Innovative Device to Support Politzer Manoeuvre , pp. 3500-3503.		
De Porcellinis, Stefano		Univ. CAMPUS Bio-Medico
Setola, Roberto		Univ. Bio-Medico di Roma
Casale, Manuele		Univ. CAMPUS Bio-Medico
Bianchi di Castelbianco, Federico		Istituto di Ortofonia
Salvinelli, Fabrizio		Univ. CAMPUS Bio-Medico
16:30-17:30		FrP2C1.2
Effect of the Needle Tip Height on the Puncture Force in a Simplified Epidural Anesthesia Simulator , pp. 3504-3507.		
Naemura, Kiyoshi		Tokyo Univ. of Tech.
16:30-17:30		FrP2C1.3
Use of Temperature Gradient Measuring Device in Monitoring of Diabetic and Critically Ill Patients , pp. 3508-3511.		
COULIC, Very		CHU Brugmann, Univ. Libre de Bruxelles
Novikov, Valeri		Inst. of transplantation and artificial organs
Devriendt, Jacques		CHU Brugmann, Univ. Libre de Bruxelles
Gillet, Clementine		CHU brugmann
Bodson, Andre		CHU Charleroi, Div. Jumet
Dekoster, Erik		CHU brugmann
16:30-17:30		FrP2C1.4
A Unconstrained Multi-Channel Heart Rate Monitoring System for Exercising Rehabilitation Patients , pp. 3512-3515.		
Park, Junho		Inje Univ.
Cho, Jongman		Inje Univ.
Nam, Taewoo		Inje Univ.
Choi, Junghyeon		Inje Univ.
16:30-17:30		FrP2C1.5
Effects of Micro-Amperage Direct Current Stimulation on Injury Potential and Its Relation to Wound Surface Area in Guinea Pig , pp. 3516-3519.		
Talebi, Ghadamali		Tarbiat Modares Univ.
Torkaman, Giti		Tarbiat Modares Univ.
Firoozabadi, S.M.P.		Tarbiat Modares Univ.
Mofid, Mahmoud		Baqiyatallah Medical Sciences Univ.
Shariat, Shams		Tehran Medical Sciences Univ.
Sedighe, Kahrizi		Tarbiat Modares Univ.

16:30-17:30		FrP2C1.6
Evaluation of Leakage Flux Out of a Dental Magnetic Attachment , pp. 3520-3523.		
Nishida, Minako		The Univ. of Tokushima
Tegawa, Yoshinori		The Univ. of Tokushima
Kinouuchi, Yohsuke		The Univ. of Tokushima
16:30-17:30		FrP2C1.7
Electrochemical Therapy to Treat Cancer (In Vivo Treatment) , pp. 3524-3527.		
Telló, Marcos	Pontificia Univ. Católica do Rio Grande do Sul	
Parise, Orlando	Hospital Sirio Libanês	
Buzaid, Antonio Carlos	Hospital Sirio Libanês	
Zanella, Rodrigo	UFRGS	
Oliveira, Luciana Oliveira de	UFRGS	
Cardona, Augusto	Pontificia Univ. Católica do Rio Grande do Sul	
Oliveira, Rosemari Theresinha	UFRGS	
16:30-17:30		FrP2C1.8
On Line Mesuarement of Urea by Aplication in Paired Filtration Dialysis (pfd), Experience in Military Hospital Center , pp. 3528-3531.		
Martinez Chavez, Gustavo Adolfo		UDEFA

FrP2C2	Forum 5&6
Image Guided Therapy II (Poster Session)	

16:30-17:30		FrP2C2.1
A Model-Aided Segmentation in Urethra Identification Based on an Atlas Human Autopsy Image for Intensity Modulated Radiation Therapy , pp. 3532-3535.		
Song, Yan		Univ. of Houston
Mueller, Boris	Memorial Sloan-Kettering Cancer Center	
Burman, Chandra	Memorial Sloan-Kettering Cancer Center	
Mychalczak, Borys	Memorial Sloan-Kettering Cancer Center	
Song, Yulin	Memorial Sloan-Kettering Cancer Center	
16:30-17:30		FrP2C2.2
Discussion Based on Numerical and Experimental Studies on Heating Characteristics of an RF Rectangular Resonant Cavity Applicator for Hyperthermia Targeting Deep-Seated Tumors , pp. 3536-3539.		
Tange, Yutaka	Maizuru National Coll. of Tech.	
Kanai, Yasushi	Niigata Inst. of Tech.	
Saitoh, Yoshiaki	Niigata Univ.	
16:30-17:30		FrP2C2.3
Finite Element Analysis of the Re-Entrant Type Resonant Cavity Applicator for Brain Tumor Hyperthermia , pp. 3540-3543.		
Yabuhara, Tadao		Meiji Univ.
Kato, Kazuo		Meiji Univ.
Shindo, Yasuhiro		Meiji Univ.
16:30-17:30		FrP2C2.4
A Tumor-Mimic Model for Evaluating the Accuracy of HIFU Preclinical Studies: An in Vivo Study , pp. 3544-3547.		
N'Djin, William Apoutou		INSERM
Melodelima, David		INSERM
Parmentier, Hubert		INSERM
Rivoire, Michel	Centre Leon Berard	
Chapelon, Jean-Yves	INSERM U556	
16:30-17:30		FrP2C2.5
Heat Shock Induced Apoptosis of Human Umbilical Vein Cells (HUVECs) , pp. 3548-3551.		
Zhou, Mingjie		SJTU
Zhang, Aili	Shanghai Jiao Tong Univ.	
Hu, Xiaofang	Shanghai Jiaotong Univ.	
Liu, Ping	Shanghai Jiao Tong Univ.	
Xu, Lisa Xuemin	Shanghai Jiaotong Univ.	
16:30-17:30		FrP2C2.6
FDTD Study of the Focusing Properties of a Hybrid Hyperthermia and Radiometry Imaging System Using a Realistic Human Head Model , pp. 3552-3555.		
Gouzouasis, Ioannis	National Tech. Univ. of Athens	
Karanasiou, Irene	National Tech. Univ. of Athens	
Uzunoglu, Nikolaos	National Tech. Univ. of Athens	

FrP2C3	Forum 5&6
Clinical Engineering IV (Poster Session)	

16:30-17:30		FrP2C3.1
Issues Associated with Off Label Use of Medical Devices , pp. 3556-3558.		
David, Yadin		Texas Children's Hospital
16:30-17:30		FrP2C3.2
Is There a Primal Face of Pain? a Methodology Answer , pp. 3559-3562.		
Martin, Schiavenato		UCF
Jacqueline, Byers		UCF
Paul, Scovanner		UCF
Windyga, Piotr	Univ. of Central Florida	
Shah, Mubarak		UCF

16:30-17:30		FrP2C3.3
Impedance Estimation of Soft Tissue Using Ultrasound Signal , pp. 3563-3568.		
Fukuda, Osamu	National Inst. of AIST	
Tsubai, Masayoshi	National Inst. of (AIST)	
Ueno, Naohiro	National Inst. of Advanced Industrial Science and Tech.	
16:30-17:30		FrP2C3.4
A New Decision Support System for Mechanical Ventilation , pp. 3569-3572.		
Tehrani, Fleur	California State Univ. Fullerton	
16:30-17:30		FrP2C3.5
Model-Based Posturographic Sleepiness Monitor Tested on 20 Subjects , pp. 3573-3576.		
Tietäväinen, Aino Saija Marika	Univ. of Helsinki	
Forsman, Pia	Finnish Inst. of Occupational Health	
Wallin, Anders	Univ. of Helsinki	
Korsbäck, Anders Jaakko	Univ. of Helsinki	
Haeggström, Edward	Univ. of Helsinki	
16:30-17:30		FrP2C3.6
A Clinical Set-Up Tool (CST) for Rapid Stimulator Programming , pp. 3577-3580.		
Tresadern, Phil	Univ. of Salford	
Thies, Sibylle	Univ. of Salford	
Kenney, Laurence	Univ. of Salford	
Howard, David	Univ. of Salford	
Goulermas, John Yannis	Univ. of Liverpool	
16:30-17:30		FrP2C3.7
AHP for the Acquisition of Biomedical Instrumentation , pp. 3581-3584.		
BALESTRA, Gabriella	Pol. di Torino	
Knafnitz, Marco	Pol. di Torino	
16:30-17:30		FrP2C3.8
PACS: Reengineering Workflow in the Imaging Department of a National Health Institute in Mexico , pp. 3585-3588.		
Ortiz-Posadas, Martha	Univ. Autónoma Metropolitana	
Benitez-Graniell, Marco Antonio	Univ. Autónoma Metropolitana Iztapalapa	
Pimentel-Aguilar, Ana Bertha	Inst. Nacional de Enfermedades Res.	
16:30-17:30		FrP2C3.9
DSS for Field Hospitals Planning. Technological and Functional Aspects , pp. 3589-3592.		
Dori, Fabrizio	Univ. di Firenze	
Iadanza, Ernesto	Univ. degli Studi di Firenze	
Miniati, Roberto	Univ. di Firenze	
16:30-17:30		FrP2C3.10
Whole-Body and Thoracic Bioimpedance Measurement: Hypertension and Hyperhydration in Hemodialysis Patients , pp. 3593-3596.		
Nescolarde, Lexa	Tech. Univ. of Catalonia (UPC)	
Bogonez Franco, Paco	Tech. Univ. of Catalonia (UPC)	
Calpe, Josep	Renal Clinic of Barcelona	
Hernández, Rafael	Renal Clinic of Barcelona	
Doñate, Teresa	Puigvert Foundation	
Rosell, Javier	Tech. Univ. of Catalonia	
FrP2C4		Forum 5&6
Clinical Engineering V (Poster Session)		
16:30-17:30		FrP2C4.2
Cuffless and Noninvasive Measurement of Systolic Blood Pressure, Diastolic Blood Pressure, Mean Arterial Pressure and Pulse Pressure Using Radial Artery Tonometry Pressure Sensor with Concept of Korean Traditional Medicine , pp. 3597-3600.		
Park, Mikyoung	Electrotechnology Res. Inst.	
Kang, HeeJung	DAEYOMEDI Co., Ltd	
Huh, Young	Korea Electrotechnology Res. Inst.	
Kim, KyungChul	Dong-Eui Univ.	
16:30-17:30		FrP2C4.3
The Choice to Go Digital: A Guideline for Using PACS in Countries Receptive to Technology , pp. 3601-3604.		
Ortiz-Posadas, Martha	Univ. Autónoma Metropolitana	
García-Porres, Julieta	Univ. Autónoma Metropolitana - Iztapalapa	
Lemus-Martinez, Cecilia	Univ. Autonoma Metropolitana - Iztapalapa	
16:30-17:30		FrP2C4.4
A Probabilistic Algorithm for Estimating the Intention of Computer Users with Movement Disorders , pp. 3605-3608.		
Grossman, Adam David	Stanford Univ.	
Sanger, Terence David	Stanford	
16:30-17:30		FrP2C4.5
Heating Properties of Re-Entrant Resonant Applicator for Brain Tumor by Electromagnetic Heating Modes , pp. 3609-3612.		
Shindo, Yasuhiro	Meiji Univ.	
Kato, Kazuo	Meiji Univ.	
Yabuhara, Tadao	Meiji Univ.	
16:30-17:30		FrP2C4.6
3-D Finite Element Analysis and Experimental Study on Brain Injury Mechanism , pp. 3613-3616.		
Takahashi, Tomoki	Meiji Univ.	
Kato, Kazuo	Meiji Univ.	

16:30-17:30		FrP2C4.7
<i>A Cross-Sectional Ultrasound Imaging for Measuring Body Composition</i> , pp. 3617-3622.		
Fukumoto, Kiyotaka		Kyushu Univ.
Tsubai, Masayoshi		National Inst. of (AIST)
Muraki, Satoshi		Kyushu Univ.
Fukuda, Osamu		National Inst. of AIST
Sato, Hironori		Hiroshima Inst. of Tech.
16:30-17:30		FrP2C4.8
<i>Simulator with Photon and Arbitrarily Arranged RBC for Hematocrit Estimation</i> , pp. 3623-3628.		
Oshima, Shiori		Univ. of Tsukuba
Sankai, Yoshiyuki		Univ. of Tsukuba
16:30-17:30		FrP2C4.9
<i>Assessment of Endothelial Function in the Radial Artery Using Inhaled Albuterol</i> , pp. 3629-3631.		
Huang, Bin		Lawrence Berkeley National Lab.
Brennan, Kathleen		Lawrence Berkeley National Lab.
Budinger, Thomas		Lawrence Berkeley National Lab.
Maltz, Jonathan S.		Siemens Medical & Berkeley Lab.
16:30-17:30		FrP2C4.10
<i>Product Development for Weaning in Respiratory Care</i> , pp. 3632-3633.		
Fugger, Erwin		Austrian Res. Centers GmbH.
Kuehteubl, Gernot		Landesklinikum Hohegg
Pohl, Wolfgang		Landesklinikum Hohegg
Wagner, Hannes		Landesklinikum Hohegg

FrP2C5	Forum 5&6
Human-Robot Interactions III (Poster Session)	

16:30-17:30		FrP2C5.1
<i>Evaluation of Obstetric Gestures: An Approach Based on the Curvature of 3D Positions</i> , pp. 3634-3637.		
Moreau, Richard		INSA-Lyon
Ochoa, Victor		Univ. of Alberta
Pham, Minh Tu		Inst. National des Sciences Appliquées (INSA de Lyon)
Boulanger, Pierre		Univ. of Alberta
Redarce, Tanneguy		Inst. National des Sciences Appliquées (INSA de Lyon)
Dupuis, Olivier		Hospices Civils de Lyon
16:30-17:30		FrP2C5.2
<i>Test of Tracing Performance with an Active Handheld Micromanipulator</i> , pp. 3638-3641.		
Choi, David Y		Carnegie Mellon Univ.
Sandoval, Roberto		Carnegie Mellon Univ.
MacLachlan, Robert A.		Carnegie Mellon Univ.
Ho, Lawrence		Univ. of Pittsburgh Medical Center
Lobes, Louis A.		Univ. of Pittsburgh Medical Center
Riviere, Cameron		Carnegie Mellon Univ.
16:30-17:30		FrP2C5.3
<i>Soft Tissue Deformation Simulation in Virtual Surgery Using Nonlinear Finite Element Method</i> , pp. 3642-3645.		
Yan, Zhennan		Shanghai Jiao Tong Univ.
Gu, Lixu		Shanghai Jiaotong Univ.
Huang, Pengfei		Shanghai Jiao Tong Univ.
Lv, Sizhe		Shanghai Jiao Tong Univ.
YU, Xiao		Shanghai Jiao Tong Univ.
Kong, Xianming		Renji Hospital, Medical School, Shanghai Jiaotong Univ.
16:30-17:30		FrP2C5.4
<i>Real-Time Cutting and Suture Simulation Using Hybrid Elastic Model</i> , pp. 3646-3649.		
Zhang, Jingsi		Shanghai Jiaotong Univ.
Gu, Lixu		Shanghai Jiaotong Univ.
Huang, Pengfei		Shanghai Jiao Tong Univ.
Dworzak, Jaldá		Lab. of Image-Guided Surgery and Therapy
Chen, Feng		Shanghai Jiaotong Univ.
Kong, Xianming		Renji Hospital, Medical School, Shanghai Jiaotong Univ.

FrP2D1	Forum 5&6
Health Information Systems and Patient Records III (Poster Session)	

16:30-17:30		FrP2D1.1
<i>BioDat—Web-Based System for Storing and Analyzing 1D Signals</i> , pp. 3650-3651.		
Kozelek, Petr		Czech Tech. Univ. in Prague
16:30-17:30		FrP2D1.2
<i>A Web-Based System for Family Health Record</i> , pp. 3652-3656.		
Bonacina, Stefano		Pol. di Milano
Marceglia, Sara		Pol. di Milano
Bertoldi, Michele		Pol. di Milano
Pincirolì, Francesco		Pol. di Milano

16:30-17:30		FrP2D1.3
Performance Analysis of Distributed and Centralized Models for Electronic Medical Record Exchanges , pp. 3657-3660.		
Huang, Ean-Wen		National Taipei Coll. of Nursing
Lee, Chiung-San		National Taipei Coll. of Nursing
Jiang, Wey-Wen		National Taipei Coll. of Nursing
Chiou, Shwu-Fen		National Taipei Coll. of Nursing
Liu, Fei-Ying		Daan Junior High School
Liou, Der-Ming		Taipei City Hospital
16:30-17:30		FrP2D1.4
Multi-Agent System As a Platform for Management of Medical Documentation , pp. 3661-3664.		
Lhotska, Lenka		Czech Tech. Univ. in Prague
16:30-17:30		FrP2D1.5
HSDPA (3.5G)-Based Ubiquitous Integrated Biotelemetry System for Emergency Care , pp. 3665-3668.		
Kang, Jaemin		Seoul National Univ.
Shin, Il Hyung		Seoul National Univ.
Koo, Yoonseo		Seoul National Univ.
Jung, Min Yang		Seoul National Univ.
Suh, Gil Joon		Seoul National Univ. Hospital
Kim, Hee Chan		Seoul National Univ.
16:30-17:30		FrP2D1.6
Using Task Analysis to Improve the Requirements Elicitation in Health Information System , pp. 3669-3672.		
Teixeira, Leonor		Aveiro Univ.
Ferreira, Carlos Manuel Santos		Aveiro Univ.
Sousa Santos, Beatriz		Aveiro Univ.
16:30-17:30		FrP2D1.7
A Conceptual Persistent Healthcare Quality Improvement Process for Software Development Management , pp. 3673-3676.		
Lin, Jen-Chiun		National Taiwan Univ.
Su, Mei-Ju		National Taiwan Univ.
Cheng, Po-Hsun		National Taiwan Univ. Hospital
Weng, Yung-Ching		National Taiwan Univ.
Chen, Sao-Jie		National Taiwan Univ.
Lai, Jin-Shin		National Taiwan Univ. Hospital
Lai, Feipei		National Taiwan Univ.
16:30-17:30		FrP2D1.8
WIH-Based IEEE 802.11 ECG Monitoring Implementation , pp. 3677-3680.		
Moein, Ali		Sciences & Res. Campus of Azad Univ.
Pouladian, Majid		Science and Res. Campus of Azad Univ.

FrP2D2

Telemedicine III (Poster Session)

Forum 5&6

16:30-17:30		FrP2D2.1
A Framework for Automated Evidence Gathering with Mobile Systems Using Bayesian Networks , pp. 3681-3684.		
José, Alexandre Bellezi		Univ. of Brasília
Barbosa, Talles M. G. de A.		Catholic Univ. of Goiás
Sene Jr, Iwens G.		Catholic Univ. of Goiás
da Rocha, Adson F.		Univ. of Brasília
Castro, Liana		Univ. of Brasília
Assis de Oliveira Nascimento, Francisco		Univ. of Brasília
Carvalho, João Luiz Azevedo de		Univ. of Southern California
Carvalho, Hervaldo Sampaio		Univ. of Brasília
16:30-17:30		FrP2D2.2
A Communication and Information Technology Infrastructure for Real Time Monitoring and Management of Type 1 Diabetes Patients , pp. 3685-3688.		
Skeofilakas, Marios		National Tech. Univ. of Athens
Mougiakakou, Stavroula		National Tech. Univ. of Athens
Zarkogianni, Konstantia		National Tech. Univ. of Athens
Aslanoglou, Erika		DATAMED
Pavlopoulos, Sotiris		National Tech. Univ. of Athens
Vazeou, Andriani		Faculty of Nursing, Univ. of Athens
Bartsocas, Christos		Faculty of Nursing, Univ. of Athens
Nikita, Konstantina		National Tech. Univ. of Athens
16:30-17:30		FrP2D2.3
Ubiquitous Monitoring System for Chronic Obstructive Pulmonary Disease and Heart Disease Patients , pp. 3689-3692.		
Shin, Il Hyung		Seoul National Univ.
Lee, Jae Ho		Seoul National Univ. Boondang Hospital
Kim, Hee Chan		Seoul National Univ.
16:30-17:30		FrP2D2.4
Screening Device for Identification of Patients with Paroxysmal Atrial Fibrillation to Prevent Ischemic Strokes , pp. 3693-3696.		
Wieland, Steven		Univ. of Karlsruhe
Kikillus, Nicole		Univ. of Karlsruhe
Baas, Tobias		Univ. of Karlsruhe
Braecklein, Martin		Corscience GmbH.
Bolz, Armin		Univ. of Karlsruhe

16:30-17:30		FrP2D2.5
ECG R-R Peak Detection on Mobile Phones , pp. 3697-3700.		
Sufi, Fahim		RMIT Univ.
Fang, Qiang		RMIT Univ.
Cosic, Irena		RMIT Univ.
16:30-17:30		FrP2D2.6
Using a Telemedicine System to Decrease Cardiovascular Disease Risk in an Underserved Population: Design, Use, and Interim Results , pp. 3701-3704.		
Santamore, William		Temple Univ.
16:30-17:30		FrP2D2.7
A Cell Phone Based Health Monitoring System with Self Analysis Processor Using Wireless Sensor Network Technology , pp. 3705-3708.		
Chung, Wan-Young		Dongseo
Yau, Chiew Lian		Dongseo Univ.
Shin, Kwang sig		Dongseo Univ.
Myllylä, Risto		Univ. of Oulu
16:30-17:30		FrP2D2.8
Mobile Consultant: Evaluation of Additional Services , pp. 3709-3712.		
Banitsas, Konstantinos		Brunel Univ.
Georgiadis, Pantelis		Univ. of Patras
Tachakra, Sapal		Central Middlesex Hospital
16:30-17:30		FrP2D2.9
A Remote Patient Monitoring System Using a Java-Enabled 3G Mobile Phone , pp. 3713-3716.		
Zhang, Pu		The Univ. of Tokushima
Kogure, Yuichi		Univ. of Tokushima
Matsuoka, Hiroki		The Univ. of Tokushima
Akutagawa, Masatake		The Univ. of Tokushima
Kinouchi, Yohsuke		The Univ. of Tokushima
Zhang, Qinyu	ShenZhen Graduate School, Harbin Inst. of Tech.	ShenZh
16:30-17:30		FrP2D2.10
Region of Interest Video Coding for Low Bit-Rate Transmission of Carotid Ultrasound Videos Over 3G Wireless Networks , pp. 3717-3720.		
Tsapatsoulis, Nicolas		Univ. of Cyprus
Loizou, Christos		Intercollege
Pattichis, Constantinos		Univ. of Cyprus
16:30-17:30		FrP2D2.11
Flexible Implementation of Front-End Bioelectric Signal Amplifier Using Fpaa for Telemedicine System , pp. 3721-3724.		
Chan, Wai Wong		The Univ. of Macau
Chan, U Fai		The Univ. of Macau
Pun, Sio Hang		Univ. of Macau
Vai, Mang I.		Univ. of Macau
Mak, Peng Un		Univ. of Macau
16:30-17:30		FrP2D2.12
Experience at Italian National Institute of Health in the Assessment of the Quality in Telemedicine: Submission to a Quality Control Process , pp. 3725-3728.		
Giansanti, Daniele		Dipartimento di Tecnologie e Salute
Morelli, Sandra		Istituto Superiore di Sanitf
Macellari, Velio		Istituto Superiore di Sanitf
16:30-17:30		FrP2D2.13
Design of a Methodology for Assessing an Electrocardiographic Telemonitoring System , pp. 3729-3732.		
Alfonzo, Alberto		IUET-LV
Huerta, Mónica		Simon Bolivar Univ.
Wong C, Sara		Univ. Simon Bolivar
Passariello, Gianfranco		Univ. Simón Bolívar
Diaz, Mary		Univ. Simon Bolivar
La Cruz, Alexandra		Simon Bolivar Univ.
Cruz, Julio		Simon Bolivar Univ.
16:30-17:30		FrP2D2.14
A Generic Task-Driven Multi-Agent Telemedicine System , pp. 3733-3736.		
NAGEBA, Ebrahim		INSA de Lyon
FAYN, Jocelyne		INSERM
RUBEL, Paul		INSA de Lyon ; Univ. de Lyon
16:30-17:30		FrP2D2.15
Design of Novel Assessment Techniques for Opioid Dependent Patients , pp. 3737-3740.		
Patil, Sushil		Univ. of Tasmania
Gale, Timothy John		Univ. of Tasmania
Stack, Clive Rohan		Univ. of Tasmania

Decision Support Systems IV (Poster Session)

- 16:30-17:30 FrP2D3.1
Evaluation of Texture Features in Hepatic Tissue Characterization from Non-Enhanced CT Images, pp. 3741-3744.
 Valavanis, Ioannis
 Mougiakakou, Stavroula
 Nikita, Alexandra
 Nikita, Konstantina
 National Tech. Univ. of Athens
 National Tech. Univ. of Athens
 Medical School, Univ. of Athens
 National Tech. Univ. of Athens
- 16:30-17:30 FrP2D3.2
E-Learning for Laurea in Biomedical Laboratory Technicians: Presentation of a Pilote Study, pp. 3745-3747.
 Giansanti, Daniele
 Castrichella, Livia
 Giovagnoli, Maria Rosaria
 Istituto Superiore di Sanitř
 Univ. "La Sapienza" di Roma
 Univ.
- 16:30-17:30 FrP2D3.3
Diagnosis of Hemorrhage in a Prehospital Trauma Population Using Linear and Nonlinear Multiparameter Analysis of Vital Signs, pp. 3748-3751.
 Chen, Liangyou
 Reisner, Andrew
 McKenna, Thomas
 Gribok, Andrei
 Reifman, Jaques
 U.S. Army Medical Res. and Materiel Command
 Massachusetts General Hospital
 U.S. Army Medical Res.
 U.S. Army Medical Res. and Materiel Command
 U.S. Army Medical Res. and Materiel Command
- 16:30-17:30 FrP2D3.4
An Architecture for Multi-Dimensional Temporal Abstraction and Its Application to Support Neonatal Intensive Care, pp. 3752-3756.
 Stacey, Michael Roeland
 McGregor, Carolyn
 Tracy, Mark
 Univ. of Western Sydney
 Univ. of Ontario Inst. of Tech.
 Department of Paediatrics and Child Health, Univ. of Sydney
- 16:30-17:30 FrP2D3.5
A 3-D CAD Tool for CT Colonography, pp. 3757-3760.
 Cardillo, Franco Alberto
 Cesaraccio, Massimo
 Starita, Antonina
 Neri, Emanuele
 Univ. of Pisa
 Univ. of Pisa
 Univ. of Pisa
 Univ. of Pisa
- 16:30-17:30 FrP2D3.6
A Method for Estimating 3-D Nuclear Parameters Using an Image Taken from a Hepatic Histopathological Section, pp. 3761-3764.
 Takahashi, Masanobu
 Yoshimi, Takashi
 Nakano, Masayuki
 Shibaura Inst. of Tech.
 Shibaura Inst. of Tech.
 Chiba Medical Center
- 16:30-17:30 FrP2D3.7
A Neuro-Fuzzy Controller for the Estimation of Tidal Volume and Respiration Frequency Ventilator Settings for COPD Patients Ventilated in Control Mode, pp. 3765-3768.
 Tzavaras, Aris
 Weller, Peter
 Spyropoulos, Vasileios
 Tech. Educational Inst. of Athens
 City Univ. London
 Tech. Education Inst. of Athens
- 16:30-17:30 FrP2D3.8
Biochemical Informatics Methods for Diagnosis, Treatment, and Disease Management, pp. 3769-3772.
 Hudson, Samuel E
 California State Univ. Bakersfield
- 16:30-17:30 FrP2D3.9
An Evaluation and Comparison of the Performance of State of the Art Approaches for the Detection of Spiculated Masses in Mammograms, pp. 3773-3776.
 Kage, Andreas
 Elter, Matthias
 Wittenberg, Thomas
 Fraunhofer Inst. for Integrated Circuits (IIS)
 Fraunhofer Inst. for Integrated Circuits (IIS)
 Fraunhofer Inst. for Integrated Circuits (IIS)
- 16:30-17:30 FrP2D3.10
Request-Driven ECG Interpretation Based on Individual Data Validity Periods, pp. 3777-3780.
 Augustyniak, Piotr
 AGH Univ. of Science and Tech.
- 16:30-17:30 FrP2D3.11
Discriminatory Validity of Dyslexia Screening Tasks in French School Age Children, pp. 3781-3785.
 Le Jan, Guylaine
 Le Bouquin Jeanes, Regine
 Costet, Nathalie
 Faucon, Gerard
 LTSI, Univ. de Rennes1
 INSERM U642 - Univ. de Rennes 1
 LTSI, Univ. de Rennes1
 INSERM U642 - Univ. de Rennes 1
- 16:30-17:30 FrP2D3.12
SVM-Based Identification of Pathological Voices, pp. 3786-3789.
 Chen, Wenxi
 Peng, Ce
 Zhu, Xin
 Wan, Baikun
 Wei, Daming
 Univ. of Aizu
 Tianjin Univ.
 the Univ. of Aizu
 Tianjin Univ.
 Univ. of Aizu
- 16:30-17:30 FrP2D3.13
Iassist: A Software Framework for Intelligent Patient Monitoring, pp. 3790-3793.
 Brouse, Christopher
 Dumont, Guy
 Yang, Ping
 Lim, Joanne
 Ansermino, J. Mark
 Univ. of British Columbia
 Univ. of British Columbia
 Univ. of British Columbia
 British Columbia Children's Hospital
 British Columbia's Children's Hospital

16:30-17:30		FrP2D3.14
Ontology-Based Vector Space Model and Fuzzy Query Expansion to Retrieve Knowledge on Medical Computational Problem Solutions , pp. 3794-3797.		
Bratsas, Charalampos		Aristotle Univ. of Thessaloniki
Koutkias, Vassilis		Aristotle Univ. of Thessaloniki
Kaimakamis, Evangelos		Aristotle Univ. of Thessaloniki
Bamidis, Panagiotis		Aristotle Univ.
Maglaveras, Nikolaos		Aristotle Univ. of Thessaloniki

FrP2D4		Forum 5&6
Ambient Assisted Living Systems and Solutions II (Poster Session)		

16:30-17:30		FrP2D4.1
A Mobile Phone-Based Communication Support System for Elderly Persons , pp. 3798-3801.		
Ogawa, Hidekuni		Hiroshima Inst. of Tech.
Yonezawa, Yoshiharu		Hiroshima Inst. of Tech.
Maki, Hiromichi		International Trinity Coll.
Caldwell, Morton		Caldwell Biomedical Electronics

16:30-17:30		FrP2D4.2
Evaluation of PIR Detector Characteristics for Monitoring Occupancy Patterns of Elderly People Living Alone at Home , pp. 3802-3805.		
Kaushik, Alka		Univ. of New South Wales
Lovell, Nigel H		Univ. of New South Wales
Celler, Branko George		Univ. of New South Wales

16:30-17:30		FrP2D4.3
Health Smart Home - towards an Assistant Tool for Automatic Assessment of the Dependence of Elders , pp. 3806-3809.		
Le, Xuan Hoa Binh		INP Grenoble
Di Mascolo, Maria		INP Grenoble, CNRS, UJF
Gouin, Alexia		INP Grenoble
Noury, Norbert		Univ. Joseph Fourier Grenoble

16:30-17:30		FrP2D4.4
Integration of an Environmental Sound Module to an Existing In-Home Activity Simulator , pp. 3810-3813.		
Virone, Gilles		Univ. of Virginia
Istrate, Dan		ESIGETEL

16:30-17:30		FrP2D4.5
Intelligent Monitoring to Improve Safety of Older Persons , pp. 3814-3817.		
Chen, Datong		Carnegie Mellon Univ.
Bharucha, Ashok		Univ. of Pittsburgh
Wactlar, Howard		Carnegie Mellon Univ.

16:30-17:30		FrP2D4.6
A Fusion Health Monitoring with ECG and Accelerometer Sensors for Elderly Persons at Home , pp. 3818-3821.		
Chung, Wan-Young		Dongseo
Bhardwaj, Sachin		Dongseo Univ.
Purwar, Amit		Dongseo Univ.
Lee, Dae-Seok		Dongseo Univ.
Mylylä, Risto		Univ. of Oulu

16:30-17:30		FrP2D4.7
Evaluation of Bluetooth Communications for the Deployment of Assisted Living Technologies in Home Environments , pp. 3822-3825.		
McGrath, Michael James		Intel Ireland Ltd
Burns, Adrian		Intel
dishongh, terrance		intel Corp.

16:30-17:30		FrP2D4.8
Sound Information Notification System by Two-Channel Electrotactile Stimulation for Hearing Impaired Persons , pp. 3826-3829.		
Okada, Kazuhide		Osaka Univ.
Kim, Gwan		Osaka Univ.
Pak, Pyong Sik		Osaka Univ.

16:30-17:30		FrP2D4.9
Validation of a Tele-Home-Care for Hand-Telerehabilitation , pp. 3830-3832.		
Giansanti, Daniele		Istituto Superiore di Sanitf
Morelli, Sandra		Istituto Superiore di Sanitf
Maccioni, Giovanni		Istituto Superiore di Sanitf
Macellari, Velio		Istituto Superiore di Sanitf

16:30-17:30		FrP2D4.10
A Preliminary Study to Demonstrate the Use of an Air Bag Device to Prevent Fall-Related Injuries (I) , pp. 3833-3835.		
Tamura, Toshiyo		Chiba Univ. Gradute School of Engineering

FrD01		Gratte Ciel 1
Signal Pattern Classification in Biomedical Signals I (Oral Session)		

Chair: Lipping, Tarmo		Tampere Univ. of Tech.
Co-Chair: Faes, Luca		Univ. of Trento
17:30-17:45		FrD01.1
Cardiac Arrhythmia Detection by Parameters Sharing and MMI Training of Hidden Markov Models , pp. 3836-3839.		
Lima, Carlos Manuel Gregorio Santos		Univ. of Minho
Cardoso, Manuel Jorge		Univ. of Minho

17:45-18:00		FrD01.2
Integration of Global and Local Knowledge for Fuzzy Expert System Creation - Application to Arrhythmic Beat Classification , pp. 3840-3843.		
Tsipouras, Markos G. Exarchos, Themis P. Fotiadis, Dimitrios I.		Univ. of Ioannina Unit of Medical Tech. & Intelligent Info Univ. of Ioannina
18:00-18:15		FrD01.3
Comparison of Seven Approaches for Holter ECG Clustering and Classification , pp. 3844-3847.		
Chudacek, Vaclav Petrik, Milan Georgoulas, George Cepek, Miroslav Lhotska, Lenka Stylios, Chrysostomos		Czech Tech. Univ. in Prague Czech Tech. Univ. Univ. of Patras Czech Tech. Univ. in Prague Czech Tech. Univ. in Prague Tech. Educational Inst. of Epirus
18:15-18:30		FrD01.4
Clustering Follow-Up Time-Series Recorded by Cardiac Implantable Devices , pp. 3848-3851.		
Guéguin, Marie Roux, Emmanuel Hernández, Alfredo I Porée, Fabienne Mabo, Philippe Graindorge, Laurence Carrault, Guy		Univ. de Rennes 1 Univ. de Toulouse III INSERM U642 LTSI. Univ. de Rennes 1 Univ. de Rennes 1 Sorin Group Univ. de Rennes 1
18:30-18:45		FrD01.5
Ventricular Arrhythmias Assessment , pp. 3852-3855.		
Henriques, Jorge Carvalho, Paulo Gil, Paulo Marques, Amandio Rocha, Teresa Ribeiro, Bernardete Antunes, Manual Schmidt, Ralf Habetha, Joerg		Univ. of Coimbra Univ. of Coimbra Univ. of Coimbra Univ. of Coimbra Inst. Pol. de Coimbra Univ. of Coimbra Univ. of Coimbra Philips Res. Philips Res. Lab.
18:45-19:00		FrD01.6
Discrimination of Ischemia and Normal Sinus Rhythm for Cardiac Signals Using a Modified K Means Clustering Algorithm , pp. 3856-3859.		
Shrivastav, Maneesh Iaizzo, Paul		Univ. of Minnesota Univ. of Minnesota
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FrD02		Gratte Ciel 2
PCA and ICA in Biomedical Signals I (Oral Session)		
Chair: James, Christopher Co-Chair: Senhadji, Lotfi		Univ. of Southampton Univ. of Rennes 1; INSERM
17:30-17:45		FrD02.1
Residual Dependency Estimation of Independent Components Applied to EEG Event Related Potentials Associated with Emotional Processing , pp. 3860-3863.		
Milanesi, Matteo James, Christopher Gemignani, Angelo menicucci, danilo Ghelarducci, Brunello Landini, Luigi		Univ. of Pisa Univ. of Southampton Univ. of Pisa National Reaserch Council (CNR) Univ. of Pisa Univ. of Pisa
17:45-18:00		FrD02.2
Narrowband vs. Broadband Phase Synchronization Analysis Applied to Independent Components of Ictal and Interictal EEG , pp. 3864-3867.		
Gupta, Disha James, Christopher		Univ. of Southampton Univ. of Southampton
18:00-18:15		FrD02.3
Blind Source Separation Methods Applied to Synthesized Polysomnographic Recordings: A Comparative Study , pp. 3868-3871.		
kachenoura, Amar Albera, Laurent Senhadji, Lotfi		Inserm; Univ. de Rennes 1 INSERM - Univ. de Rennes1 Univ. of Rennes 1; INSERM
18:15-18:30		FrD02.4
EEG Effects of Motion Sickness Induced in a Dynamic Virtual Reality Environment , pp. 3872-3875.		
Lin, Chin-Teng Chuang, Shang-Wen Chen, Yu-Chieh Ko, Li-Wei Liang, Sheng-Fu Jung, Tzyy-Ping		National Chiao-Tung Univ. National Chiao-Tung Univ. National Chiao-Tung Univ. National Chiao-Tung Univ. National Chiao-Tung Univ. Univ. of California San Diego

18:30-18:45		FrD02.5
<i>An Independent-Component-Analysis-Based Time-Space Processor for the Identification of Neural Stimulation Sources</i> , pp. 3876-3879.		
Robert, Pierre-Yves		École Pol. de Montréal
Sawan, Mohamad		Ec. Pol.
18:45-19:00		FrD02.6
<i>An Empirical Quantitative EEG Analysis for Evaluating Clinical Brain Death</i> , pp. 3880-3883.		
Cao, Jianting	(1) Saitama Inst. of Tech. (2)BrainScienceInstitute, R	
Chen, Zhe	Massachusetts General Hospital, Harvard Medical School	

FrD03		Bellecour 1
RF Coil Technology for MRI (Oral Session)		

Chair: Lee, Ray		New York Univ.
Co-Chair: Xu, Dan		Univ. of Illinois, Urbana-Champaign

17:30-17:45		FrD03.1
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<i>Cavity Resonator Coil for High Field Magnetic Resonance Imaging</i> , pp. 3884-3885.		
Solis-Najera, Sergio		Univ. Autonoma Metropolitana
Tomasi, Dardo		Brookhaven National Lab.
Rodriguez, Alfredo O		UAM, Iztapalapa

17:45-18:00		FrD03.2
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<i>A Dedicated Two-Element Phased Array Receiver Coil for High Resolution MRI of Rat Knee Cartilage at 7T</i> , pp. 3886-3889.		
Rengle, Adrian		Univ. de Lyon, Univ. Lyon 1, INSA-Lyon
Armenean, Mircea		Univ. de Lyon, Univ. Lyon1, INSA-Lyon
BOLBOS, Radu		Univ. of California San Francisco
Goebel, J-C		Univ. Nancy I,
Pinzano-Watrin, A		Univ. Nancy I
Saint-Jalmes, Hervé		Univ. de Lyon, Univ. Lyon1
Gillet, Pierre		Univ. Nancy I
BEUF, olivier		Univ. de Lyon, Univ. Lyon 1, INSA-Lyon

18:00-18:15		FrD03.3
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<i>Numerical Study of the Optimal Geometry of MRI Surface Coils</i> , pp. 3890-3893.		
Rojas, Rafael		UAM, Iztapalapa.
Rodriguez, Alfredo O		UAM, Iztapalapa

18:15-18:30		FrD03.4
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<i>Radiofrequency Power Deposition Near Metallic Wires During MR Imaging: Feasibility Study Using T1-Weighted Thermal Imaging</i> , pp. 3894-3897.		
Oulmane, Farah		Univ. Lyon 1
DETTI, Valerie		Univ. Lyon 1
GRENIER, Denis		Univ. Lyon 1
PERRIN, Emmanuel		Univ. Lyon 1
Saint-Jalmes, Hervé		Univ. de Lyon, Univ. Lyon1

18:30-18:45		FrD03.5
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<i>An Improved Hybrid MoM/FDTD Technique for MRI RF Coils Modeling Using Huygen's Equivalent Surface Method</i> , pp. 3898-3901.		
Li, Bing Keong		The Univ. of Queensland
Liu, Feng		The Univ. of Queensland
Weber, Ewald		The Univ. of Queensland
Padhi, Shantanu		EMI Centre, Univ. of Queensland
Crozier, Stuart		The Univ. of Queensland

18:45-19:00		FrD03.6
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<i>Comparison of Birdcage and Phase Array Coil Using FDTD for the B1 Homogeneity in High Field MRI</i> , pp. 3902-3905.		
Seo, Jeung Hoon		Kyung Hee Univ.
Han, Byung Hee		Kyung Hee Univ.
Lee, Soo Yeol		Kyung Hee Univ.

FrD04		Bellecour 3
X-Ray-Based Imaging Analysis and Applications (Oral Session)		

Chair: PEYRIN, Françoise		UMR CNRS 5220; Inserm U630; INSA-Lyon; ESFR
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17:30-17:45		FrD04.1
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<i>Detection of Microcalcifications in Digital Mammograms</i> , pp. 3906-3909.		
Lopez-Aligue, Francisco J.		Univ. OF EXTREMADURA - Faculty of Sciences
Poveda-Pierola, Alberto		Univ. OF EXTREMADURA.
Acevedo-Sotoca, Isabel		Univ. OF EXTREMADURA, Fac. of Sceinces
Garcia-Urra, Fernando		Hospital Infanta Cristina

17:45-18:00		FrD04.2
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<i>Evaluation of Two Software Tools Dedicated to an Automatic Analysis of the CT Scanner Image Spatial Resolution</i> , pp. 3910-3913.		
Torfeh, Tarraf		QualiFormeD
Beaumont, Stéphane		QualiFormeD
Guédon, JeanPierre		Univ. of Nantes - EPUN
Denis, Elodse		Univ. of Nantes - EPUN

18:00-18:15		FrD04.3
Fast Dose Calculation for Stereotactic Synchrotron Radiotherapy , pp. 3914-3917.		
freud, nicolas		INSA-LYON
Letang, Jean Michel		INSA-Lyon
Mary, Corentin		CPE Lyon
Boudou, Caroline		CEA
Ferrero, Claudio		ESRF
Elleaume, Hélične		INSERM
Bravin, Alberto		ESRF
Esteve, Francois		INSERM
Babot, Daniel		INSA-LYON
18:15-18:30		FrD04.4
Feasibility of Micro-Crack Detection in Human Trabecular Bone Images from 3D Synchrotron Microtomography , pp. 3918-3921.		
LARRUE, Aymeric	UMR CNRS 5220 ; INSERM U630 ; INSA-Lyon ; ESRF	
RATTNER, Aline		INSERM U890
LAROCHE, Norbert		INSERM U890
VICO, Laurence		INSERM U890
PEYRIN, Françoise	UMR CNRS 5220; Inserm U630; INSA-Lyon; ESRF	
18:30-18:45		FrD04.5
Recognition of Microcalcifications in Digital Mammograms Based on Markov Random Field and Deterministic Fractal Modeling , pp. 3922-3925.		
Huang, Yu-Kun		National Chung Cheng Univ.
Yu, Sung-Nien		National Chung Cheng Univ.
18:45-19:00		FrD04.6
In Vivo Cerebral Artery Microangiography in Rat and Mouse Using Synchrotron Radiation Imaging System , pp. 3926-3929.		
Umetani, Keiji	Japan Synchrotron Radiation Res. Inst.	
Sakurai, Takashi		Kobe Univ.
Kondoh, Takeshi		Kobe Univ.

FrD05		Tête d'Or Lounge
Instrumentation and Systems for Diagnosis and Clinical Management III (Oral Session)		

17:30-17:45		FrD05.1
A Sub-Microwatt Low-Noise Amplifier for Neural Recording , pp. 3930-3933.		
Holleman, Jeremy		Univ. of Washington
Otis, Brian		Univ. of Washington
17:45-18:00		FrD05.2
Modeling the Influence of Body Position in Bioimpedance Measurements , pp. 3934-3937.		
Medrano, Guillermo	Aachen Univ. Helmholtz-Inst. for Biomedical	
Leonhardt, Steffen		RWTH Aachen Univ.
Zhang, Peng		RWTH Aachen Univ.
18:00-18:15		FrD05.3
An Orientation Measuring System Suitable for Routine Uses Made by the Fusion of a 3D Gyroscope and a Magnetic Tracker , pp. 3938-3941.		
Favre, Julien		Ec. Pol. Federale de Lausanne
Chardonens, Julien		Ec. Pol. Federale de Lausanne
Aminian, Kamiar		Ec. Pol. Federale
18:15-18:30		FrD05.4
Monitoring and Analysis of Cardio Respiratory and Snoring Signals by Using an Accelerometer , pp. 3942-3945.		
Sánchez Morillo, Daniel		Univ. of Cádiz
Rojas Ojeda, Juan Luis		Univ. of Cádiz
Cresp Foix, Felipe		Univ. of Cádiz
Barbosa Rendón, David		Univ. of Cádiz
León Jiménez, Antonio		Hospital Univ. Puerta del Mar de Cádiz
18:30-18:45		FrD05.5
A System for Accessing Implantable Medical Ports in the Office Setting , pp. 3946-3949.		
Ellsmere, James	Harvard Medical School and Beth Israel Deaconess Medical Center	
Wells, William		Harvard Medical School and Brigham & Women's Hospital

FrD06		Tête d'Or 2
Textile Sensors and Smart Fabrics I (Oral Session)		

Chair: Paradiso, Rita		Milior SpA
17:30-17:45		FrD06.1
OFSETH: Optical Fibre Embedded into Technical Textile for Healthcare, an Efficient Way to Monitor Patient under Magnetic Resonance Imaging , pp. 3950-3953.		
De jonckheere, Julien		USTL
Jeanne, Mathieu		CHRU de Lille
Weber, Stefan		Tech. Univ. of Munich
Logier, Regis		CHRU de Lille
17:45-18:00		FrD06.2
Wearable Seismocardiography , pp. 3954-3957.		
Castiglioni, Paolo	Fondazione Don Carlo Gnocchi ONLUS	
Faini, Andrea		Univ. degli Studi Milano-Bicocca
Parati, Gianfranco		Istituto Auxologico Italiano
Di Rienzo, Marco		Fondazione Don Carlo Gnocchi

18:00-18:15		FrD06.3
MagIC: A Textile System for Vital Signs Monitoring. Advancement in Design and Embedded Intelligence for Daily Life Applications , pp. 3958-3961.		
Di Rienzo, Marco		Fondazione Don Carlo Gnocchi
Rizzo, Francesco		Fondazione Don C. Gnocchi ONLUS
Meriggi, Paolo		Fondazione Don Gnocchi
Castiglioni, Paolo		Fondazione Don Carlo Gnocchi ONLUS
Mazzoleni, Paolo		Fondazione Don Carlo Gnocchi ONLUS
Ferrarin, Maurizio		Foundation Don Carlo Gnocchi Onlus
Ferratini, Maurizio		Fondazione Don C. Gnocchi, ONLUS
18:15-18:30		FrD06.4
Smart Garments for Safety Improvement of Emergency/Disaster Operators , pp. 3962-3965.		
Curone, Davide		Univ. degli Studi di Pavia
Dudnik, Gabriela		CSEM
Loriga, Giannicola		Smartex s.r.l.
Luprano, Jean	CSEM -Centre Suisse d'Electronique et de Microtechnique	Univ. of Pavia
Magenes, Giovanni		Milior SpA
Paradiso, Rita		Univ. of Pisa
tognetti, alessandro		Univ. of Cagliari
Bonfiglio, Annalisa		FrD06.5
18:30-18:45		
Textile Integrated Contactless EMG Sensing for Stress Analysis (I) , pp. 3966-3969.		
Taelman, Joachim		Katholieke Univ. Leuven
Adriaensen, Tine		Katholieke Univ. Leuven
van der Horst, Caroline		TNO
Linz, Torsten		Tech. Univ. Berlin
Spaepen, Arthur		Katholieke Univ. Leuven
18:45-19:00		FrD06.6
Woven Electronics: A New Perspective for Wearable Technology (I) , pp. 3970-3973.		
Bonfiglio, Annalisa		Univ. of Cagliari
Maccioni, Maurizio		Univ. of Cagliari
Locci, Simone		Univ. of Cagliari
Orgiu, Emanuele		Univ. of Cagliari

FrD07		Bellecour 2
Ventricular Assist Devices (Oral Session)		

17:30-17:45		FrD07.1
Morphological Approach for the Functional Improvement of an Artificial Myocardial Assist Device Using Shape Memory Alloy Fibres , pp. 3974-3977.		
Shiraishi, Yasuyuki	Inst. of Development, Aging andCancer, Tohoku Univ.	Tohoku Univ.
Yambe, Tomoyuki		Tohoku Univ.
Saijo, Yoshifumi	Inst. of Development Aging and Cancer, TohokuUniversity	Fukushima Univ.
Tanaka, Akira		Tohoku Univ.
Yoshizawa, Makoto		Waseda Univ.
Park, Young Kwang		Waseda Univ.
Uematsu, Miyuki		Tohoku Univ.
Ogawa, Daisuke		Fukushima Univ.
Tanaka, Akira		Waseda Univ. Graduate School
Umezu, Mitsuo		Tohoku Univ.
Baba, Atsushi		Shibaura Inst. of Tech.
Fujimoto, Tetsuo		FrD07.2
17:45-18:00		
A Rule-Based Controller Based on Suction Detection for Rotary Blood Pumps , pp. 3978-3981.		
Ferreira, Antonio		Univ. of Pittsburgh
Boston, J Robert		Univ. of Pittsburgh
Antaki, James		Carnegie-Mellon Univ.
18:00-18:15		FrD07.3
Improvement of Hemolysis in a Centrifugal Blood Pump with Hydrodynamic Bearings and Semi-Open Impeller , pp. 3982-3985.		
Kosaka, Ryo	National Inst. of Advanced Industrial ScienceandTechnology (
Yamane, Takashi	National Inst. of Advanced Industrial Science and Tech.	
Maruyama, Osamu	National Inst. of Advanced Industrial Science and Tech.	
Nishida, Masahiro	National Inst. of Advanced Industrial Science andTechnology	
Yada, Toru	Graduate School of Tokyo Univ. of Science	
Satio, Sakae		U-Corp.
Hirai, Shusaku		U-Corp.
18:15-18:30		FrD07.4
Acute Increase in Reversal Blood Flow During Counterpulsation Is Associated with Vasoconstriction and Changes in the Aortic Mechanics , pp. 3986-3989.		
Bia, Daniel		School of Medicine, Republic Univ.
Zócalo, Yanina		School of Medicine, Republic Univ.
Armentano, Ricardo Luis		Favaloro Univ.
de Forteza, Eduardo		Univ. Favaloro
Fischer, Edmundo		Univ. Favaloro

18:30-18:45 FrD07.5
A Dynamic Lumped Parameter Model of the Left Ventricular Assisted Circulation, pp. 3990-3993.
 Lim, Einly UNSW
 Cloherty, Shaun L Univ. of New South Wales
 Reizes, John A UNSW
 Mason, David G Ventracor Ltd
 Salamonsen, Robert F Alfred Hospital
 Karantonis, Dean M Univ. of New South Wales
 Lovell, Nigel H Univ. of New South Wales

FrD08 Gratte Ciel Lounge

Sleep Biosignal Analysis: Present State and Future Directions (Oral Session)

Chair: Ktonas, Periklis Univ. of Athens
 Co-Chair: Anderer, Peter Medical Univ. of Vienna

17:30-17:45 FrD08.1

Automatic Sleep Classification According to Rechtschaffen and Kales, pp. 3994-3997.
 Anderer, Peter Medical Univ. of Vienna
 Gruber, Georg The Siesta Group Schlafanalyse GmbH
 Parapatics, Silvia The Siesta Group Schlafanalyse GmbH
 Dorffner, Georg Medical Univ. of Vienna

17:45-18:00 FrD08.2

Towards Automated Sleep State Estimation Using a Holter-Oximeter, pp. 3998-4001.

Chua, Chern-Pin Univ. Coll. Dublin
 Garvey, John St Vincent's Univ. Hospital
 Redmond, Stephen Univ. Coll. Dublin
 Heneghan, Conor Univ. Coll. Dublin
 Mc Nicholas, Walter St. Vincent's Univ. Hospital

18:00-18:15 FrD08.3

Independent Components of Sleep Spindles, pp. 4002-4005.

Ventouras, Errikos Tech. Educational Inst. of Athens
 Alevizos, Ioannis Medical School Univ. of Patras
 Ktonas, Periklis Univ. of Athens
 Tsekou, Hara Medical School, Univ. of Athens
 Paparrigopoulos, Thomas Medical School, Univ. of Athens
 Kalatzis, Ioannis Tech. Educational Inst. of Athens
 Soldatos, Constantin Medical School, Univ. of Athens
 Nikiforidis, George Medical School, Univ. of Patras

18:15-18:30 FrD08.4

Wavelet Analysis of Electroencephalographic and Electro-Oculographic Changes During the Sleep Onset Period, pp. 4006-4010.

Magosso, Elisa Univ. of Bologna
 Ursino, Mauro Univ. of Bologna
 Provini, Federica Univ. of Bologna
 Montagna, Pasquale Univ. of Bologna

FrD09 Gratte Ciel 3

Robotic Devices for Rehabilitation I (Oral Session)

Chair: Patton, James (Jim) Rehab Inst. Chicago & Northwestern U.
 Co-Chair: Reinkensmeyer, David Univ. of California

17:30-17:45 FrD09.1

Interactive Priming Enhanced by Negative Damping Aids Learning of an Object Manipulation Task, pp. 4011-4014.

Huang, Felix Rehabilitation Inst. of Chicago
 Patton, James (Jim) Rehab Inst. Chicago & Northwestern U.
 Mussa-Ivaldi, Ferdinando Rehabilitation Inst. of Chicago

17:45-18:00 FrD09.2

Home Stroke Rehabilitation for the Upper Limbs, pp. 4015-4018.

Willmann, Richard Philips Res. Europe
 Lanfermann, Gerd Philips
 Saini, Privender Philips Res. Europe
 Timmermans, Annick Philips Res. Europe
 te Vrugt, Jürgen Philips Res. Europe
 Winter, Stefan Philips Res. Europe

18:00-18:15 FrD09.3

A Computational Model of Human-Robot Load Sharing During Robot-Assisted Arm Movement Training after Stroke, pp. 4019-4023.

Reinkensmeyer, David Univ. of California
 Wolbrecht, Eric Univ. of California, Irvine
 Bobrow, James Univ. of Calif, Irvine

18:15-18:30 FrD09.4

A Planar 3DOF Robotic Exoskeleton for Rehabilitation and Assessment, pp. 4024-4027.

Ball, Stephen Joseph Queen's Univ.
 Brown, Ian Edward Queen's Univ.
 Scott, Stephen H. Queen's Univ.

18:30-18:45		FrD09.5
Quantification of Therapists' Manual Assistance on the Leg During Treadmill Gait Training with Partial Body-Weight Support after Spinal Cord Injury , pp. 4028-4032.		
Galvez, Jose A.		Univ. of California, Irvine
Budovitch, Amy		Rancho Los Amigos National Rehabilitation Center
Harkema, Susan J		Univ. of Louisville
Reinkensmeyer, David		Univ. of California
18:45-19:00		FrD09.6
Stability Analysis for Tactile Pattern Based Recognition System for Hand Gestures , pp. 4033-4036.		
Honda, Yuichiro		Tech. Univ. of Munich
Weber, Stefan		Tech. Univ. of Munich
Lueth, Tim		Tech. Univ. of Munich

FrD11		Tețe d'Or 1
Ambient Assisted Living Systems and Solutions I (Oral Session)		

Chair: Cohen, Maurice		Univ. of California San Francisco
Co-Chair: Tyrer, Harry		Univ. of Missouri - Columbia

17:30-17:45		FrD11.1
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Falls Management: Detection and Prevention, Using a Waist-Mounted Triaxial Accelerometer , pp. 4037-4040.		
Narayanan, Michael Ravi		Univ. of New South Wales
Lord, Stephen		Univ. of New South Wales
Budge, Marc		Canberra Hospital
Lovell, Nigel H		Univ. of New South Wales
Celler, Branko George		Univ. of New South Wales

17:45-18:00		FrD11.2
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Evaluation of Technology-Based Service Scenarios for Supporting Independent Living , pp. 4041-4044.		
Kenttä, Outi		VTT
Merilahti, Juho Markus		VTT
Petäkoski-Hult, Tuula		VTT
Ikonen, Veikko		VTT
Korhonen, Ilkka		VTT

18:00-18:15		FrD11.3
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Early Detection of Health Changes in Older Adults , pp. 4045-4048.		
Tyrer, Harry		Univ. of Missouri - Columbia
Skubic, Marjorie		Univ. of Missouri
Rantz, Marilyn		Univ. of Missouri - Columbia

18:15-18:30		FrD11.4
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3D Human Pose Recognition for Home Monitoring of Elderly , pp. 4049-4051.		
Jansen, Bart		Vrije Univ. Brussel
Temmermans, Frederik		Vrije Univ. Brussel
Deklerck, Rudi		Vrije Univ. Brussel

18:30-18:45		FrD11.5
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Energy Efficient Contextual Sensing for Elderly Care , pp. 4052-4055.		
Bhatia, Dinesh		The Univ. of Texas at Dallas
Estevez, Leonardo		Texas Inst.
Rao, Shekar		Texas Inst. Inc.

18:45-19:00		FrD11.6
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An Extended PROSAFE Platform for Elderly Monitoring at Home , pp. 4056-4059.		
Campo, Eric		LAAS-CNRS
Bonhomme, Sylvain		LAAS-CNRS
Esteve, Daniel		LAAS-CNRS
Guenec, Joëlle		EDF R&D

19:00-19:15		FrD11.7
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Easily Installable Behavioral Monitoring System with Electric Field Sensor , pp. 4060-4063.		
Tsukamoto, Sosuke		Tokyo Denki Univ.
Machida, Yuichiro		Tokyo Denki Univ.
Kameda, Noriyuki		Tokyo Denki Univ.
Hoshino, Hiroshi		Tokyo Denki Univ.
Tamura, Toshiyo		Chiba Univ. Graduate School of Engineering

FrD12		Rhône 2
Microvascular Blood Flow with Laser Doppler Flowmetry: Linear and Nonlinear Signal Processing (Invited Session)		

Chair: Humeau, Anne		Groupe ISAIP-ESAIP and Univ. d'Angers
Co-Chair: Stefanovska, Aneta		Lancaster Univ.
Organizer: Humeau, Anne		Groupe ISAIP-ESAIP and Univ. d'Angers

17:30-17:45		FrD12.1
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Importance of Wavelet Analysis in Laser Doppler Flowmetry Time Series (I) , pp. 4064-4067.		
Bernjak, Alan		Faculty of Electrical Engineering, Univ. of Ljubljana
Stefanovska, Aneta		Lancaster Univ.

17:45-18:00		FrD12.2
<i>Numerical Simulation of Laser Doppler Flowmetry Signals Based on a Model of Nonlinear Coupled Oscillators. Comparison with Real Data in the Frequency Domain (I)</i> , pp. 4068-4071.		
Humeau, Anne	Groupe ISAIP-ESAIP and Univ. d'Angers	
Chapeau-Blondeau, François	Univ. d'Angers	
Rousseau, David	Univ. d'Angers	
Abraham, Pierre	Centre Hospitalier Univ. d'Angers	
18:00-18:15		FrD12.3
<i>The Cardio-Respiratory Couplings Observed in the LDF Signal Using Wavelet Bispectrum (I)</i> , pp. 4072-4075.		
Stefanovska, Aneta	Lancaster Univ.	
Jamsek, Janez	Faculty of Education, Univ. of Ljubljana	
18:15-18:30		FrD12.4
<i>Normalization of Vasomotion in Laser Doppler Perfusion Monitoring (I)</i> , pp. 4076-4079.		
Graaff, Reindert	Univ. Medical Centre Groningen and Univ.	
Morales, Fernando	Univ. Medical Centre Groningen and Univ. of Groningen	
Smit, Andries J.	Univ. Medical Center Groningen and Univ. of Groningen	
de Jong, Ed D.	Univ. Medical Center Groningen and Univ. of Groningen	
de Mul, Frits F.M.	Univ. Groningen, Univ. Medical Center Groningen	
Rakhorst, Gerhard	Univ. Medical Center Groningen and Univ. of Groningen	
18:30-18:45		FrD12.5
<i>Estimation of Speed Distribution of Particles Moving in an Optically Turbid Medium Using Decomposition of a Laser-Doppler Spectrum (I)</i> , pp. 4080-4082.		
Liebert, Adam	Inst. of Biocybernetics and Biomedical Engineering	
Zolek, Norbert	Inst. of Biocybernetics and Biomedical Engineering	
Wojtkiewicz, Stanislaw	Inst. of Biocybernetics and Biomedical Engineering	
Maniewski, Roman	Inst. of Biocybernetics & Biomed Engr	
18:45-19:00		FrD12.6
<i>A Laser Doppler System for Intracerebral Measurements During Stereotactic Neurosurgery (I)</i> , pp. 4083-4086.		
Wírdell, Karin	Linköping Univ.	
FrD13		Roseraie 1,2
Biological and Biochemical Sensors: Materials and Analytical Technologies (Minisymposium)		
Chair: Diamond, Dermot	Dublin City Univ.	
Co-Chair: Laureyn, Wim	IMEC	
Organizer: Diamond, Dermot	Dublin City Univ.	
Organizer: Laureyn, Wim	IMEC	
17:30-17:45		FrD13.1
<i>Sensors for Small Molecules of Biochemical Interest Based on Surface-Enhanced Raman Spectroscopy: The Challenges of Preparing Enhancing Materials for Real-World Applications (I)</i> , pp. 4087-4087.		
Bell, Steven E.J.	Queen's Univ.	
17:45-18:00		FrD13.2
<i>Magnetic Particle Handling Microsystems for Miniaturized Analytical Applications (I)</i> , pp. 4088-4089.		
Gijs, Martin	Ec. Pol. Fédérale de Lausanne	
18:00-18:15		FrD13.3
<i>Polypyrrole Based Switchable Filter System (I)</i> , pp. 4090-4091.		
Wu, Yanzhe	Dublin City Univ.	
Nolan, Lorraine	Dublin City Univ.	
Coyle, Shirley	DCU	
Lau, King Tong	Dublin City Univ.	
Wallace, Gordon	Univ. of Wollongong	
Diamond, Dermot	Dublin City Univ.	
18:15-18:30		FrD13.4
<i>Towards a Method for Printing Network of Chick Forebrain Neurons for Biosensor Applications (I)</i> , pp. 4092-4095.		
Sasoglu, F.Mert	Drexel Univ.	
Kilinc, Devrim	Drexel Univ.	
Allen, Kathleen	Drexel Univ.	
Layton, Bradley E.	Drexel Univ.	
18:30-18:45		FrD13.5
<i>Beads-Based System for Optical Sensing Using Spiropryan Photoswitches (I)</i> , pp. 4096-4097.		
Scarmagnani, Silvia	Dublin City Univ.	
Walsh, Zarah	Dublin City Univ.	
Alhashimy, Nameer	Dublin City Univ.	
Radu, Alexandar	Dublin City Univ.	
Macka, Mirek	Dublin City Univ.	
Paull, Brett	Dublin City Univ.	
Diamond, Dermot	Dublin City Univ.	

SaA01		Gratte Ciel 1
Signal Pattern Classification in Biomedical Signals II (Oral Session)		
Chair: Magenes, Giovanni		Univ. of Pavia
08:30-08:45		SaA01.1
Localization of an Inert Region in the Brain Using Modified Levenberg Marquarts Neural Network , pp. 4098-4101.		
Katayama, Masato		The Univ. of Tokushima
Akutağawa, Masatake		The Univ. of Tokushima
Kaji, Yoshio		Tokushima Bunri Univ.
Nagashino, Hirofumi		The Univ. of Tokushima
Kinouchi, Yohsuke		The Univ. of Tokushima
08:45-09:00		SaA01.2
Non-Linear Neural Spike Train Decoding Via Polynomial Kernel Regression , pp. 4102-4105.		
Cassidy, Andrew		Johns Hopkins Univ.
Etienne-Cummings, Ralph		Johns Hopkins Univ.
09:00-09:15		SaA01.3
Classifying Depth of Anesthesia Using EEG Features, a Comparison , pp. 4106-4109.		
Esmaeili, Vahid		Sharif Univ. of Tech.
Shamsollahi, Mohammad Bagher		Sharif Univ. of Tech.
Arefian, Noor Mohammad		Shahid Beheshti Univ. of medical science
Assareh, Amin		Amirkabir Univ. of Tech.
09:15-09:30		SaA01.4
Impact of Patient-Specificity on Seizure Onset Detection Performance , pp. 4110-4114.		
Shoeb, Ali		Massachusetts Inst. of Tech.
Bourgeois, Blaise		Children's Hospital Boston, Harvard Medical School
Treves, S. Ted		Children's Hospital Boston, Harvard Medical School
Schachter, Steven		Beth Israel Deaconess Medical Center, Harvard Medical School
Guttag, John		MIT
09:30-09:45		SaA01.5
Extraction of Qeeg Variables to Diagnose Early Dementia , pp. 4115-4118.		
Che, Huije		Yonsei Univ.
Jung, YoungJin		Yonsei Univ.
Im, Chang-Hwan		Yonsei Univ.
Lee, Seung Hwan		Inje Univ. Ilsanpaik Hospital
09:45-10:00		SaA01.6
Melody Shape - a Suggested Novel Attribute for the Biomedical Analysis of the Infant Cry , pp. 4119-4122.		
Várallyay Jr., György		Budapest Univ. of Tech. and Ec.
Benyo, Zoltan		Budapest Univ. of Tech. & Ec.
SaA02		Gratte Ciel 2
Signal Processing and Physiological System Modeling VII (Oral Session)		
Chair: Laguna, Pablo		Zaragoza Univ.
Co-Chair: Meste, Olivier		UNSA-CNRS
08:30-08:45		SaA02.1
Ensemble Spontaneous Activity Alterations Detected by CISA Approach , pp. 4123-4126.		
BOUDAUD, SOFIANE		Nice Sophia Antipolis Univ.
Rix, Hervé, Henri		Univ. of Nice-Sophia Antipolis
Meste, Olivier		UNSA-CNRS
CAZALS, YVES		Univ. PAUL CEZANNE - AIX MARSEILLE III UMR 6153 CNRS -
08:45-09:00		SaA02.2
An Auditory Model Based Strategy for Cochlear Implants , pp. 4127-4130.		
Nogueira, Waldo		Leibniz Univ. Hannover
Katai, Andras		Fraunhofer Inst.
Harczos, Tamas		Fraunhofer Inst.
Klefenz, Frank		Fraunhofer Inst.
Buechner, Andreas		Medizinische Hochschule Hannover
Edler, Bernd		Leibniz Univ. Hannover
09:00-09:15		SaA02.3
Algorithm for Characteristic Parameter Estimation of Gastric Impedance Spectra in Humans , pp. 4131-4134.		
Beltran, Nohra		Innovamedica
de Folter, Jozefus J.M.		Innovamedica
Godinez, Montserrat		Innovamedica S.A. de C.V.
Díaz, Ursina		Innovamedica S.A. de C.V.
Sacristan, Emilio		Univ. Autónoma Metropolitana
09:15-09:30		SaA02.4
Electrohysterographic Analysis of Uterine Contraction Propagation with Labor Progression: A Preliminary Study , pp. 4135-4138.		
Rabotti, Chiara		Eindhoven, Tech. Univ.
Mischi, Massimo		Eindhoven Univ. of Tech.
van Laar, Judith		Eindhoven Tech. Univ.
Oei, S. Guid		Maxima Medisch Centrum, Veldhoven
Bergmans, Johannes Wilhelmus Maria		Eindhoven Univ. of Tech.
09:30-09:45		SaA02.5
Fractal-Based Automatic Localization and Segmentation of Optic Disc in Retinal Images , pp. 4139-4141.		
Ying, Huajun		Texas A&M Univ.
Zhang, Ming		Texas A&M Univ.
Liu, Jyh-Charn		Texas A&M Univ.

SaA03	Bellecour 1
Electrical Impedance Imaging (Oral Session)	
Chair: Saulnier, Gary	Rensselaer Pol. Inst.
08:30-08:45	SaA03.1
Regional Admittivity Spectra with Tomosynthesis Images for Breast Cancer Detection , pp. 4142-4145.	
Kao, Tzu-Jen	Rensselaer Pol. Inst. TROY NY, USA
Boverman, Gregory	Rensselaer Pol. Inst.
isaacson, David	Rensselaer Pol. Inst.
Saulnier, Gary	Rensselaer Pol. Inst.
Newell, Jonathan	Rensselaer Pol. Inst.
Moore, Richard	Massachusetts General Hospital
Kopans, Daniel	Massachusetts General Hospital
08:45-09:00	SaA03.2
Electrical Conductivity Imaging of Postmortem Canine Brains Using Magnetic Resonance Electrical Impedance Tomography , pp. 4146-4149.	
Woo, Eung Je	Kyung Hee Univ.
Kim, Hyung Joong	Kyung Hee Univ.
Lee, Byung Il	Kyung Hee Univ.
Kim, Young Tae	Kyung Hee Univ.
Lee, Soo Yeol	Kyung Hee Univ.
09:00-09:15	SaA03.3
Layered Model for Breasts in Electrical Impedance Tomography , pp. 4150-4153.	
Kulkarni, Rujuta	Rensselaer Pol. Inst.
Boverman, Gregory	Rensselaer Pol. Inst.
isaacson, David	Rensselaer Pol. Inst.
Saulnier, Gary	Rensselaer Pol. Inst.
Newell, Jonathan	Rensselaer Pol. Inst.
09:15-09:30	SaA03.4
An Electrical Impedance Spectroscopy System for Breast Cancer Detection , pp. 4154-4157.	
Saulnier, Gary	Rensselaer Pol. Inst.
Liu, Ning	Rensselaer Pol. Inst.
Tamma, Chandana P	Rensselaer Pol. Inst.
xia, hongjun	GE Healthcare
Kao, Tzu-Jen	Rensselaer Pol. Inst. TROY NY, USA
Newell, Jonathan	Rensselaer Pol. Inst.
isaacson, David	Rensselaer Pol. Inst.
09:30-09:45	SaA03.5
Breast Cancer Detection Based on Multi-Frequency EIS Measurement , pp. 4158-4160.	
Zhen, Cheng	the Fourth Military Medical Univ.
Dong, Xiuzhen	Fourth Military Medical Univ.
Fu, Feng	Fourth Medical Univ.
Ji, Zhenyu	the Fourth Military Medical Univ.
Xu, Canhua	Fourth Military Medical Univ.
09:45-10:00	SaA03.6
To Detect Lung Ventilation with Multi-Frequency EIT System , pp. 4161-4164.	
Zhang, Shuai	Hebei Univ. of Tech.
Xu, Guizhi	Hebei Univ. of Tech.
Wang, Renping	Hebei Univ. of Tech.
Yang, Shuo	Hebei Univ. of Tech.
Yan, Weili	Hebei Univ. of Tech.

SaA04	Bellecour 3
Molecular Imaging I (Oral Session)	
Chair: Visvikis, Dimitris	INSERM U650
Co-Chair: Lim, Eugene Yusek	Royal Prince Alfred Hospital
08:30-08:45	SaA04.1
Evaluation of Geometrical Sensitivity for Respiratory Motion Gating by GATE and NCAT Simulation , pp. 4165-4168.	
He, Jianfeng	RMIT Unviersity, Melbourne, Australia
O'Keefe, Graeme	Austin Hospital
Jones, Gareth	the Austin Hospital, Australia
Tim, Saunder	the Austin Hospital, Australia
Gong, Sylvia Jie	the Austin Hospital, Australia
Geso, Moshi	RIMT Univ.
Scott, Andrew M	the Austin Hospital, Australia
08:45-09:00	SaA04.2
Optimal Dual Time Point for FDG-PET in the Differentiation of Benign from Malignant Lung Lesions: A Simulation Study , pp. 4169-4172.	
Jia, Rui	Tsinghua Univ.
Eberl, Stefan	Royal Prince Alfred Hospital
Wen, Lingfeng	Univ. of Sydney
Bai, Jing	Tsinghua Univ.
Feng, Dagan	The Univ. of Sydney

09:00-09:15		SaA04.3
<i>A Differential Evolution Approach to PET Image De-Noising</i> , pp. 4173-4176.		
Gupta, Vikas		Nanyang Tech. Univ.
Julian, Chi Chiu Chan		Nanyang Tech. Univ.
Pui, Tze Sian		Nanyang Tech. Univ.
09:15-09:30		SaA04.4
<i>Enhanced Formation of Parametric Images Using Fast Regressive GLLS for Noisy Functional Imaging</i> , pp. 4177-4180.		
Wen, Lingfeng		Univ. of Sydney
Eberl, Stefan		Royal Prince Alfred Hospital
Bai, Jing		Tsinghua Univ.
Feng, Dagan		The Univ. of Sydney
09:30-09:45		SaA04.5
<i>Precise 3-D Localization of Fluorescent Probes without Numerical Fitting</i> , pp. 4181-4184.		
Andersson, Sean		Boston Univ.
Sun, Ting		Boston Univ.
09:45-10:00		SaA04.6
<i>Tracking Interacting Subcellular Structures by Sequential Monte Carlo Method</i> , pp. 4185-4188.		
Wen, Quan		The Univ. of Texas at Arlington
Gao, Jean		Univ. of Texas

SaA05 Tête d'Or Lounge

Sensor-Actuator, Closed-Loop Systems (Oral Session)

Chair: De Rossi, Danilo		Univ. of Pisa
Co-Chair: Tamura, Toshiyo		Chiba Univ. Graduate School of Engineering
08:30-08:45		SaA05.1
<i>A Magnetically Controlled Wireless Intraocular Oxygen Sensor: Concept, Prototype, and in Vitro Experiments</i> , pp. 4189-4193.		
Ergeneman, Olgac		ETH Zurich
Dogangil, Gorkem		Swiss Federal Inst. of Tech. (ETH) Zurich
Nazeeruddin, Mohammad Khaja		EPFL
Abbott, Jake J.		ETH Zurich
Nelson, Bradley		ETH Zurich
08:45-09:00		SaA05.2
<i>Investigation of NMR Limits of Detection for Implantable Microcoils</i> , pp. 4194-4197.		
Baxan, Nicoleta		Univ. Lyon1 Claude Bernard
Rengle, Adrian		Univ. de Lyon, Univ. Lyon 1, INSA-Lyon
Pasquet, Guillaume		Univ. Lyon1 Claude Bernard
Chateaux, Jean-François		Univ. Lyon1 Claude Bernard
Briguet, André		Univ. Claude Bernard Lyon1
Morin, Pierre		Univ. Lyon1 Claude Bernard
Fakri-Bouchet, Latifa		Univ. Lyon 1 Claude Bernard
09:00-09:15		SaA05.3
<i>Fuzzy Control of Ionic Polymer-Metal Composites</i> , pp. 4198-4201.		
Khadivi Heris, Hossein		Tehran Univ.
Seyed Aghazadeh, Babak		Tehran Univ.
Lucas, Caro		Tehran Univ.
09:15-09:30		SaA05.4
<i>Optimizing the Tactile Display of Physiological Information: Vibro-Tactile vs. Electro-Tactile Stimulation, and Forearm or Wrist Location</i> , pp. 4202-4205.		
Ng, Ginna		Univ. of British Columbia
Barralon, Pierre		Univ. of British Columbia
Dumont, Guy		Univ. of British Columbia
Schwarz, Stephan K. W.		The Univ. of British Columbia
Ansermino, J. Mark		British Columbia's Children's Hospital
09:30-09:45		SaA05.5
<i>The Effect of Deformation on Room Temperature Coulomb Blockade Using Conductive Carbon Nanotubes</i> , pp. 4206-4210.		
Legum, Benjamin		Drexel Univ.
Cooper, Ryan		Drexel Univ.
Mattia, Davide		Drexel Univ.
Gogotsi, Yury		Drexel Univ.
Layton, Bradley E.		Drexel Univ.
09:45-10:00		SaA05.6
<i>Tooth Brushing Pattern Classification Using Three-Axis Accelerometer and Magnetic Sensor for Smart Toothbrush</i> , pp. 4211-4214.		
Lee, Kang-Hwi		Konkuk Univ.
Lee, Jeong-Whan		Konkuk Univ.
Kim, Kyeong-Seop		Konkuk Univ.
Kim, Dong-Jun		Cheongju Univ.
Kim, Kyungho		Samsung Advanced Inst. of Tech.
Yang, Heui-Kyung		Chungju Univ.
Jeong, Kee-Sam		Yongin Songdam Coll.
Lee, Byung-Chae		Yong-In Songdam Coll.

SaA06 Tețe d'Or 2

Expression Profiling and Algorithms I (Oral Session)

Chair: Wang, May Dongmei Georgia Tech. and Emory Univ.

08:30-08:45 SaA06.1

How to Extract Marker Genes from Microarray Data Sets, pp. 4215-4218.

Schachtner, Reinhard Univ. of Regensburg
Lutter, Dominik Univ. Hospital Regensburg
Theis, Fabian Max Planck Inst. for Dynamics and Self-Organization
Lang, Elmar W. Univ. of Regensburg
Schmitz, Gerd Univ. Hospital Regensburg
Tome, Ana Maria Univ. de Aveiro
Gomez Vilda, Pedro Univ. Pol. de Madrid

08:45-09:00 SaA06.2

Using a Single Neuron As a Marker Selector - a Breast Cancer Case Study, pp. 4219-4222.

Blazadonakis, Michalis Tech. Univ. of Crete
Perperoglou, Aris Tech. Univ. of Crete
Zervakis, Michalis Tech. Univ. of Crete, Greece

09:00-09:15 SaA06.3

Coupling Texture Analysis and Physiological Modeling for Liver Dynamic MRI Interpretation, pp. 4223-4226.

Mescam, Muriel INSERM, U642, Rennes F-35000 France; Univ. F
Bezy-Wendling, Johanne INSERM, U642, Rennes F-35000 France; Univ. de Rennes
Kretowski, Marek Faculty of Computer Science, Bialystok Tech. Univ.
Jurczuk, Krzysztof Faculty of Computer Science, Bialystok Tech. Univ.
Eliat, Pierre-Antoine PRISM ImagiVeC UPRES-EA 3890 IFR 140 Univ. de Rennes1, Fran
Olivié, Damien Département d'Imagerie Médicale, CHRU Pontchaillou

09:15-09:30 SaA06.4

The Painter's Feature Selection for Gene Expression Data, pp. 4227-4230.

Apiletti, Daniele Pol. di Torino
Baralis, Elena Pol. di Torino
Bruno, Giulia Pol. di Torino
Fiori, Alessandro Pol. di Torino

09:30-09:45 SaA06.5

Reproducibility of Differential Gene Detection across Multiple Microarray Studies, pp. 4231-4234.

Vo, Tan Minh Georgia Inst. of Tech.
Phan, John H. Georgia Inst. of Tech.
Huynh, Kiet Georgia Inst. of Tech.
Wang, May Dongmei Georgia Tech. and Emory Univ.

09:45-10:00 SaA06.6

A Dynamical Model on the Network of P53-Mdm2 Feedback Loop Regulated by P14/19ARF, pp. 4235-4238.

Liu, Hui Hebei Univ. of Tech.
Han, Yingrong Hebei Univ. of Tech.
ZHAN, Yong Hebei Univ. of Tech.
Chen, Ya-Fei Univ.
Zhang, Yuhong Hebei Univ. of Tech.
Yu, Hui Hebei Univ. of Tech.
Zhao, Tongjun Hebei University of Tech.
Zhuo, Yizhong China Inst. of Atomic Energy

SaA07 Bellecour 2

Respiratory Systems I (Oral Session)

Chair: Baconnier, Pierre Univ. Joseph Fourier
Co-Chair: Gumery, Pierre-Yves Univ. joseph fourier

08:30-08:45 SaA07.1

Amplitude Analysis of Pressure Oscillations after Interruption of Tidal Breathing in Preschool Children, pp. 4239-4242.

Talts, Jaak Univ. of Tartu
Kivastik, Jana Univ. of Tartu
Jagomagi, Kersti Univ. of Tartu

08:45-09:00 SaA07.2

Two Models of High Frequency Chest Compression Therapy: Interaction of Jacket Pressure and Mouth Airflow, pp. 4243-4246.

Lee, Yong Wan Univ. of Minnesota
Lee, Jongwon Univ. OF MINNESOTA
Warwick, Warren J. Univ. of Minnesota

09:00-09:15 SaA07.3

Estimation of Expiratory Resistance: A Simulation Study, pp. 4247-4250.

Brighenti, Chiara Univ. of Bologna
Gnudi, Gianni Univ. of Bologna
Barbini, Paolo Univ. of Siena
Avanzolini, Guido Univ. of Bologna

09:15-09:30		SaA07.4
Modeling Human Respiratory Impedance in Hispanic Asthmatic Children , pp. 4251-4254.		
Meraz, Erika		Univ. of Texas at El Paso
Nazeran, Homayoun		The Univ. of Texas at El Paso
Diong, Bill		Texas Christian Univ.
Goldman, Michael David		Univ. of California Los Angeles
Menendez, Roger		Allergy and Asthma Res. Center of El Paso
Ortiz, Gabe		Allergy and Asthma Res. Center of El Paso
09:30-09:45		SaA07.5
Quantitative Assessment of Pulmonary Shunt and Ventilation-Perfusion Mismatch without a Blood Sample , pp. 4255-4258.		
Smith, Bram W.		Aalborg Univ.
Rees, Stephen		Aalborg Univ.
Karbing, Dan Stieper		Aalborg Univ.
Kj�rsgaard, S�ren		Aalborg Hospital
Andreassen, Steen		Aalborg Univ.
09:45-10:00		SaA07.6
Drug-Induced Respiratory Depression: An Integrated Model of Drug Effects on the Hypercapnic and Hypoxic Drive , pp. 4259-4263.		
Caruso, Antonello		ETH Zurich
Bouillon, Thomas		Univ. Hospital Bern
Schumacher, Peter		Univ. Hospital Bern
Luginbuehl, Martin		Univ. Hospital
Morari, Manfred		Swiss Federal Inst. of Tech.

SaA08 Gratte Ciel Lounge
EEG and EP Analysis I (Oral Session)

Chair: Ktonas, Periklis Univ. of Athens
Co-Chair: WENDLING, Fabrice INSERM - Univ. de Rennes 1

08:30-08:45 SaA08.1

Eliciting Audio Evoked Potentials Using Continuous Stimuli, pp. 4264-4267.

Power, Alan Univ. Coll. Dublin
Lalor, Edmund Univ. Coll. Dublin
Reilly, Richard Univ. Coll. Dublin

08:45-09:00 SaA08.2

Bayesian EEG Dipole Source Localization Using SA-RJMCMC on Realistic Head Model, pp. 4268-4272.

Yildiz, Gokcen Galatasaray Univ.
Duru, Adil Deniz Bogazici Univ.
Ademoglu, Ahmet Bogazici Univ.
Demiralp, Tamer O;stanbul Medical School

09:00-09:15 SaA08.3

Seizure Recognition on Epilepsy Feature Tensor, pp. 4273-4276.

Acar Ataman, Evrim Rensselaer Pol. Inst.
Aykut Bingol, Canan Yeditepe Univ. Hospital
Bingol, Haluk Bogazici Univ.
Bro, Rasmus Copenhagen Univ.
Yener, Bulent Rensselaer Pol. Inst.

09:15-09:30 SaA08.4

Modeling and Interpretation of Scalp-EEG and Depth-EEG Signals During Interictal Activity, pp. 4277-4280.

COSANDIER-RIMELE, Delphine INSERM - Univ. de Rennes 1
Badier, Jean-Michel Aix Marseille Univ.
Chauvel, Patrick Facult  de M decine (Aix-Marseille Univ. & H pital de la T
WENDLING, Fabrice INSERM - Univ. de Rennes 1

09:30-09:45 SaA08.5

Modeling Neural Correlates of Auditory Attention in Evoked Potentials Using Corticothalamic Feedback Dynamics, pp. 4281-4284.

Trenado, Carlos Computational Diagnostics and Biocybernetics Unit
Haab, Lars Saarland Univ. Hospital
Strauss, Daniel J. Computl Diagnostics & Biocybernetics

09:45-10:00 SaA08.6

Optimal Brain Network Synchrony Visualization: Application in an Alcoholism Paradigm, pp. 4285-4288.

Sakkalis, Vangelis FORTH and Tech. Univ. of Crete
Tsiaras, Vassilis Crete
Zervakis, Michalis Tech. Univ. of Crete, Greece
Tollis, Ioannis Univ. of Crete

SaA09 Gratte Ciel 3
Orthopaedic and Musculo-Skeletal Biomechanics I (Oral Session)

Chair: Amirouche, Farid Univ. of Illinois-Chicago
Co-Chair: Robinson, Charles Clarkson Univ.

08:30-08:45 SaA09.1

Dynamic Simulation of Cervical Spine Following Single-Level Cervical Disc Replacement, pp. 4289-4292.

de Jongh, Cornelis Uys Univ. of Stellenbosch
Basson, Anton Herman Stellenbosch Univ.
Scheffer, Cornie Stellenbosch Univ.

08:45-09:00		SaA09.2
Ball-And-Socket Joint Motion Description Using Spherical Medial Representation , pp. 4293-4296.		
Guillard, Gwenael		Univ. of Geneva
Magenat-Thalmann, Nadia		Univ. of Geneva
09:00-09:15		SaA09.3
Interaction of Ligament Bundles and Articular Contacts for the Simulation of Passive Knee Flexion , pp. 4297-4300.		
Ozkan, Mehmed		Bogazici Univ.
Akalan, Ekin		Bogazici Univ.
temelli, yener		Istanbul Univ.
09:15-09:30		SaA09.4
Modeling Avian Kinematics Using Software Developed for the Human Musculoskeletal System , pp. 4301-4304.		
Buford, Jr., William L		The Univ. of Texas Medical Branch
Hollister, Anne M.		LSU Health Sciences Center
Andersen, Clark		Univ. of Texas Medical Branch
09:30-09:45		SaA09.5
Knee Joint Endoprosthesis Loading in Full Extension , pp. 4305-4307.		
Zach, Lukas		Czech Tech. Univ. in Prague
Konvickova, Svatava		Czech Tech. Univ. in Prague
Ruzicka, Pavel		Czech Tech. Univ. in Prague
Cheze, Laurence		Univ. Claude Bernard Lyon 1
09:45-10:00		SaA09.6
A Biomechanical Model of Human Ankle Angle Changes Arising from Short Peri-Threshold Anterior Translations of Platform on Which a Subject Stands , pp. 4308-4311.		
Pilkar, Rakesh		Clarkson Univ.
Moosbrugger, John		Clarkson Univ.
Bhatkar, Viprali		Clarkson Univ.
Schilling, Robert		Clarkson Univ.
Storey, Christopher M.		Louisiana Tech. Univ.
Robinson, Charles		Clarkson Univ.

SaA10

Rhône 1

MRI: Recent Advances in Physiological and Metabolic Imaging (Minisymposium)

Chair: Wu, Ed X.		The Univ. of Hong Kong
Co-Chair: Liang, Zhi-Pei		Univ. of Illinois, Urbana-Champaign
Organizer: Wu, Ed X.		The Univ. of Hong Kong
Organizer: Liang, Zhi-Pei		Univ. of Illinois, Urbana-Champaign
08:30-08:45		SaA10.1
Diffusion Tensor MR Study of Optic Nerve Degeneration in Glaucoma (I) , pp. 4312-4315.		
Hui, Edward S.		The Univ. of Hong Kong
Fu, Qing-ling		The Univ. of Hong Kong
So, Kwok-fai		The Univ. of Hong Kong
Wu, Ed X.		The Univ. of Hong Kong
08:45-09:00		SaA10.2
Magnetic Resonance Imaging (MRI) of Inflammation in Stroke (I) , pp. 4316-4319.		
Wuart, Marlene		Univ. of Lyon, Creatis, UMR CNRS 5220, U630Inserm,INSA de L
Davoust, Nathalie		Univ. de Lyon, Inserm U851, IFR128,
Pialat, Jean-Baptiste		Univ. of Lyon, Creatis, UMR CNRS 5220, U630 Inserm, INSA de
Berthezčne, Yves		Univ. of Lyon, Creatis, UMR CNRS 5220, U630 Inserm, INSA de
Nighoghossian, Norbert		Univ. of Lyon, Creatis, UMR CNRS 5220, U630 Inserm,INSA de
09:00-09:15		SaA10.3
Arterial Spin Labeling: A One-Stop-Shop for Measurement of Brain Perfusion in the Clinical Settings (I) , pp. 4320-4323.		
Golay, Xavier		Singapore Bioimaging Consortium
Petersen, Esben		National Neuroscience Inst.
Zimine, Ivan		National Neuroscience Inst.
LIM, TCHOYOSON C C		National Neuroscience Inst.
09:15-09:30		SaA10.4
High-Resolution MR Metabolic Imaging (I) , pp. 4324-4326.		
Haldar, Justin		Univ. of Illinois at Urbana-Champaign
Hernando, Diego		Univ. of Illinois at Urbana-Champaign
Budde, Matthew		Washington Univ. in St Louis
Wang, Qing		Biomedical MR Lab. Washington Univ. in Saint
Song, Sheng-Kwei		Washington Univ.
Liang, Zhi-Pei		Univ. of Illinois, Urbana-Champaign
09:30-09:45		SaA10.5
Automated Analysis of ¹H Magnetic Resonance Metabolic Imaging Data As an Aid to Clinical Decision-Making in the Evaluation of Intracranial Lesions (I) , pp. 4327-4330.		
Shungu, Dikoma C.		Weill Medical Coll. of Cornell Univ.
Du, Shuyan		Columbia Univ.
Mao, Xiangling		Weill Medical Coll. of Cornell Univ.
Heier, Linda		Weill Medical Coll. of Cornell Univ.
Pannullo, Susan C.		Weill Medical Coll. of Cornell Univ.
Sajda, Paul		Columbia Univ.

SaA11	Teçe d'Or 1
Decision Support Systems I (Oral Session)	
Chair: Senhadji, Lotfi	Univ. of Rennes 1; INSERM
Co-Chair: Celler, Branko George	Univ. of New South Wales
08:30-08:45	SaA11.1
A Decision Support System for the Acquisition and Elaboration of EEG Signals: The Aml-GRID Environment , pp. 4331-4334.	
Starita, Antonina	Univ. of Pisa
Barcaro, Umberto	Univ. of Pisa
Palanca, Elena	Univ. of Pisa
Ciullo, Piero Paolo	Univ. of Pisa
Righi, Marco	Univ. of Pisa
Cerbioni, Katuscia	Univ. of Pisa
Di Bona, Sergio	Synapsis s.r.l.
Guerri, Davide	Synapsis s.r.l.
08:45-09:00	SaA11.2
A Decision Support Architecture for Telecare Patient Management of Chronic and Complex Disease , pp. 4335-4338.	
Basilakis, Jim	Univ. of NSW
Lovell, Nigel H	Univ. of New South Wales
Celler, Branko George	Univ. of New South Wales
09:00-09:15	SaA11.3
Stress ECG and Laboratory Database for the Assessment of Diabetic Cardiovascular Autonomic Neuropathy , pp. 4339-4342.	
Quintero, Luisanna	Univ. Simon Bolivar
Wong C, Sara	Univ. Simon Bolivar
Parra, Raul	Univ. Metropolitana
Cruz, Julio	Simon Bolivar Univ.
Antepara, Norka	Univ. Central de Venezuela
Almeida, Deyanira	Univ. Central de Venezuela
Ng, Francisco	BC Centre for Excellence in HIV/AIDS
Passariello, Gianfranco	Univ. Simón Bolívar
09:15-09:30	SaA11.4
Intelligent Monitoring of Critical Pathological Events During Anesthesia , pp. 4343-4346.	
Gohil, Bhupendra	Auckland Univ. of Tech.
GholamHosseini, Hamid	Auckland Univ. of Tech.
Harrison, Michael	Univ. of Auckland
Lowe, Andrew	Pulsecor Limited
Al-Jumaily, Ahmed	Auckland Univ. of Tech.
09:30-09:45	SaA11.5
Distributed Intelligent Medical Assistant for Osteoporosis Detection , pp. 4347-4350.	
LEJOUAD CHAARI, WIDED	Manouba Univ.
MOISAN, SABINE	National Res. Inst. in Computer Engineering and Control
Sevestre-Ghalila, Sylvie	U2S, ENIT / MAP5 Univ. Paris Descartes
RIGAULT, JEAN-PAUL	Nice Sophia Antipolis Univ. - INRIA
09:45-10:00	SaA11.6
Real-Time Development of Patient-Specific Alarm Algorithms for Critical Care , pp. 4351-4354.	
Zhang, Ying	Harvard Medical School - MIT
10:00-10:15	SaA11.7
Towards Sustainable Decision-Support System Facilitating EBM , pp. 4355-4358.	
Stolba, Nevena	Vienna Univ. of Tech.
Nguyen, Tho Manh	Vienna Univ. of Tech.
Tjoa, A Min	Vienna Univ. of Tech.
SaA12	Rhône 2
Modern Assistive Technologies (Invited Session)	
Chair: Ghovanloo, Maysam	Georgia Inst. of Tech.
Co-Chair: Cooper, Rory	Univ. of Pittsburgh
Organizer: Ghovanloo, Maysam	Georgia Inst. of Tech.
08:30-08:45	SaA12.1
New Multifunctional Prosthetic Arm and Hand Systems (I) , pp. 4359-4360.	
Weir, Richard	Rehabilitation Inst. of Chicago
08:45-09:00	SaA12.2
Control Aspects of Motor Neural Prosthesis: Sensory Interface (I) , pp. 4361-4363.	
Popovic, Dejan	Aalborg Univ.
Dosen, Strahinja	Aalborg Univ.
Popovic, Mirjana	Aalborg Univ.
Stefanovic, Filip	Faculty of Electrical Engineerin
Kojovic, Jovana	Aalborg Univ.
09:00-09:15	SaA12.3
Monitoring Seat Feature Usage among Wheelchair Users (I) , pp. 4364-4367.	
Ding, Dan	Univ. of Pittsburgh
Cooper, Rory	Univ. of Pittsburgh
Cooper, Rosemarie	Univ. of Pittsburgh
Kelleher, Annmaire	Univ. of Pittsburgh

09:15-09:30		SaA12.4
Personal Mobility and Manipulation Using Robotics, Artificial Intelligence and Advanced Control (I) , pp. 4368-4371.		
Cooper, Rory		Univ. of Pittsburgh
Ding, Dan		Univ. of Pittsburgh
Grindle, Garrett		Univ. of Pittsburgh
Wang, Hongwu		Univ. of Pittsburgh
09:30-09:45		SaA12.5
Monitoring Mobility Assistive Device Use in Post-Stroke Patients (I) , pp. 4372-4375.		
Boissy, Patrick		Inst. Univ. de Gériatrie
Hester, Todd		Harvard Medical School
Sherrill, Delsey M.		Harvard Medical School
Corriveau, Hélične		Univ. Sherbrooke
Bonato, Paolo		Harvard Medical School
09:45-10:00		SaA12.6
Tongue Operated Assistive Technologies (I) , pp. 4376-4379.		
Ghovanloo, Maysam		North Carolina State Univ.

SaA13		Roseraie 1,2
Intellectual Property in Medical Devices and Biotechnology (Minisymposium)		
Chair: Mak, Benjamin		Firm
Organizer: Mak, Benjamin		Firm
08:30-08:45		SaA13.1
Intellectual Property in Medical Devices and Biotechnology (I) , pp. 4380-4380.		
Mak, Benjamin		Firm
08:45-09:00		SaA13.2
Creating Value in a Medical Device Company through Intellectual Assets , pp. 4381-4385.		
Harrison, Robert		24IP Law Group

SaP1B1		Forum 5&6
Electrical Imaging (Source and Impedance) (Poster Session)		
10:30-12:00		SaP1B1.1
A 128-Electrode Three Dimension Electrical Impedance Tomography System , pp. 4386-4389.		
Xu, Guizhi		Hebei Univ. of Tech.
Wang, Renping		Hebei Univ. of Tech.
Zhang, Shuai		Hebei Univ. of Tech.
Yang, Shuo		Hebei Univ. of Tech.
Justin, Gusphyl		Univ. of Pittsburgh
Sun, Mingui		Univ. of Pittsburgh
Yan, Weili		Hebei Univ. of Tech.
10:30-12:00		SaP1B1.2
A New Algorithm to Reconstruct EIT Images: Node-Back-Projection Algorithm , pp. 4390-4393.		
Zhang, Jianjun		Hebei Univ. of Tech.
Yan, Weili		Hebei Univ. of Tech.
Xu, Guizhi		Hebei Univ. of Tech.
Zhao, Quanming		Hebei Univ. of Tech.
10:30-12:00		SaP1B1.3
An EEG-Based Real-Time Cortical Rhythmic Activity Monitoring System: A Pilot Study , pp. 4394-4397.		
Hwang, Han-Jeong		Yonsei Univ.
Che, Huije		Yonsei Univ.
Im, Chang-Hwan		Yonsei Univ.
10:30-12:00		SaP1B1.4
Automatic Labeling of EEG Electrodes Using Combinatorial Optimization , pp. 4398-4401.		
pechaud, mickaël		ENPC-ENS-INRIA
Keriven, Renaud		Ec. des Ponts
Papadopoulo, Théodore		INRIA Sophia-Antipolis
Badier, Jean-Michel		Aix Marseille Univ.
10:30-12:00		SaP1B1.5
Time-Varying Cortical Connectivity by Adaptive Multivariate Estimators Applied to a Combined Foot-Lips Movement , pp. 4402-4405.		
Astolfi, Laura		Univ. of Rome
Babiloni, Fabio		Univ. of Rome
Cincotti, Febo		Fondazione Santa Lucia IRCCS
Mattia, Donatella		Fondazione Santa Lucia IRCCS
De Vico Fallani, Fabrizio		Univ. La Sapienza
Witte, Herbert		Friedrich Schiller Univ.
Hesse, Wolfram		Friedrich Schiller Univ. Jena
Salinari, Serenella		La Sapienza Univ.
Colosimo, Alfredo		Univ. of Rome "Sapienza"
Ursino, Mauro		Univ. of Bologna
Zavaglia, Melissa		Univ. of Bologna
Marciani, Maria Grazia		Tor Vergata Univ.

SaP1B2	Forum 5&6
X-Ray Imaging (Poster Session)	
Chair: FELBLINGER, Jacques	IADI, UHP-Inserm ERI 13
10:30-12:00	SaP1B2.1
Image Reconstruction for Magnetic Induction Tomography and Preliminary Simulations on a Simple Head Model , pp. 4406-4409.	
Wang, Cong	the Fourth Military Medical Univ.
Liu, Ruigang	Fourth Military Medical Univ.
Fu, Feng	Fourth Military Medical Univ.
You, Fusheng	Fourth Military Medical Univ.
Shi, Xuetao	Fourth Military Medical Univ.
Dong, Xiuzhen	Fourth Military Medical Univ.
10:30-12:00	SaP1B2.2
Even More Inversion Formulas for the 2D Radon Transform of Functions of Compact and Convex Support , pp. 4410-4413.	
Ould Mohamed, Moctar Salem	Lab. Hubert Curien
Menessier, Catherine	CPE-Lyon
Clackdoyle, Rolf	Univ. Jean Monnet
10:30-12:00	SaP1B2.3
Automatic Segmentation of the Lungs Using Robust Level Sets , pp. 4414-4417.	
Silveira, Margarida	Inst. Superior Técnico
Nascimento, Jacinto	Inst. Superior Técnico
Marques, Jorge	Inst. Superior Técnico and Inst.
10:30-12:00	SaP1B2.4
Free Isocentric 3D Imaging and a Novel Approach for Wobble Trajectories Using a Modified Standard C-Arm , pp. 4418-4421.	
Tita, Ralf	Tech. Univ. München
Lueth, Tim	Tech. Univ. of Munich
10:30-12:00	SaP1B2.5
Radiological Image Enhancement by X-Ray Choppers , pp. 4422-4424.	
Pouladian, Majid	Science and Res. Campus of Azad Univ.
Karami Gadallo, Leila	Science and Res. Campus of Azad Univ.
10:30-12:00	SaP1B2.6
Image-Based Strength Assessment of Bone , pp. 4425-4428.	
Hangartner, Thomas N.	Wright State Univ.
10:30-12:00	SaP1B2.7
Degradation of the Z Resolution Due to a Longitudinal Motion with a 64-Channel CT Scanner , pp. 4429-4432.	
GROSJEAN, Romain	IADI, UHP-Inserm ERI 13
SAUER, Benoit	IADI, UHP-Inserm ERI 13
GUERRA, Rui Matias	IADI, UHP-Inserm ERI 13
BLUM, Alain	Hopital Central
FELBLINGER, Jacques	IADI, UHP-Inserm ERI 13
HUBERT, Jacques	IADI, UHP-Inserm ERI 13 and Urology Department
10:30-12:00	SaP1B2.8
Reduction of False Positives in Polyp Detection Using Weighted Support Vector Machines , pp. 4433-4436.	
Zheng, Yalin	Medicsight PLC
Yang, Xiaoyun	Medicsight PLC
Beddoe, Gareth	Medicsight PLC
10:30-12:00	SaP1B2.9
A Study of AAA Image Segmentation Technique Using Geometric Active Contour Model with Morphological Gradient Edge Function , pp. 4437-4440.	
Kim, Hochul	Korea Univ.
Seol, Yunhwan	Korea Univ.
Choi, Seokyeon	Korea Univ.
Oh, Jangseok	Korea Univ.
Kim, MinGi	Korea Univ.
Sun, Kyung	Korea Univ.
10:30-12:00	SaP1B2.10
Physico-Mathematical Considerations on X-Ray Computed Tomography Based on Diffraction Enhanced Imaging , pp. 4441-4444.	
Yuasa, Tetsuya	Yamagata Univ.
10:30-12:00	SaP1B2.11
Noise Performance of Readout Electronics for Photodetector , pp. 4445-4448.	
Park, Shin Woong	Korea Univ.
Yuk, Sunwoo	Korea Orthopedics & Rehabilitation Engineering Center
Yi, Yun	Korea Univ.
10:30-12:00	SaP1B2.12
Efficient Computer-Aided Detection of Ground-Glass Opacity Nodules in Thoracic CT Images , pp. 4449-4452.	
Ye, Xujiong	Medicsight PLC
Lin, Xinyu	Medicsight PLC
Beddoe, Gareth	Medicsight PLC
Dehmeshki, Jamshid	Kingston Univ.
10:30-12:00	SaP1B2.13
The Position of the Centres of the Sensors of the Parotec Pressure Measurement Insoles System Related to the Anatomy Centres of the Metatarsal Heads by Means of Radiological Records , pp. 4453-4456.	
Zequera, Martha	Pontificia Univ. Javeriana

10:30-12:00		SaP1B2.14
	Improving Pediatric Radiation Dose Management Using Agfa Digital Radiography DICOM Header Information , pp. 4457-4459.	
	Juste, Belen	Pol. Univ. of Valencia
	Verdú, Gumersindo	Pol. Univ. of Valencia
	Villaescusa, Nacho	hospital La Fe
10:30-12:00		SaP1B2.15
	An Automatic Calibration Approach for Left Ventricular Volume Assessment , pp. 4460-4463.	
	perrenot, beatrice	CREATIS-LRMN; General Electric Healthcare
	Vaillant, Régis	General Electric Healthcare
	Douek, Philippe	CREATIS-LRMN, Hospices Civils de Lyon
	prost, remy	CREATIS-LRMN
	PEYRIN, Francoise	UMR CNRS 5220; Inserm U630; INSA-Lyon; ESRF
	finet, gerard	hospices civils lyon

SaP1B3 Forum 5&6
Molecular Imaging II (Poster Session)

10:30-12:00		SaP1B3.1
	Morphological and Parametric Estimation of Fetal Neural Stem Cell Migratory Capacity in the Rat Brain , pp. 4464-4467.	
	Flexman, Jennifer A.	Univ. of Washington
	Cross, Donna J.	Univ. of Washington
	Kim, Yongmin	Univ. of Washington
	Minoshima, Satoshi	Univ. of Washington
10:30-12:00		SaP1B3.2
	High Transparency Coded Apertures in Planar Nuclear Medicine Imaging , pp. 4468-4471.	
	Starfield, David Mark	Univ. of the Witwatersrand, Johannesburg
	Rubin, David Milton	Univ. of the Witwatersrand, Johannesburg
	Marwala, Tshilidzi	Univ. of the Witwatersrand

SaP1B4 Forum 5&6
Cardiac Imaging II (Poster Session)

10:30-12:00		SaP1B4.1
	A Beating Heart Model 3D Printed from Specific Patient Data , pp. 4472-4475.	
	Markert, Mathias	Tech. Univ. Munich
	Weber, Stefan	Tech. Univ. of Munich
	Lueth, Tim	Tech. Univ. of Munich
10:30-12:00		SaP1B4.2
	BEM Performance in Calculation of Pressure Distribution in Spline Based Segmented Medical Images , pp. 4476-4479.	
	Pashae, Ali	Amirkabir Univ. of Tech. (Tehran Pol.
	Fatourae, Nasser	Amirkabir Univ. of Tech.
10:30-12:00		SaP1B4.3
	Efficient Tracking of the Heart Using Texture , pp. 4480-4483.	
	Noce, Aurélien	LIRMM - Univ. Montpellier 2
	POIGNET, Philippe	LIRMM, UMR CNRS 5506, Univ. of Montpellier II
	TRIBOULET, Jean	Univ. of Montpellier II
10:30-12:00		SaP1B4.4
	Simulation Environment for the Evaluation of 3D Coronary Tree Reconstruction Algorithms in Rotational Angiography , pp. 4484-4487.	
	Yang, Guanyu	Southeast Univ.
	Bousse, Alexandre	LTSI-INSERM U642
	Toumoulin, Christine	Univ. de Rennes I
	Shu, Huazhong	Southeast Univ.
10:30-12:00		SaP1B4.5
	A New Dynamic Elastic Model for Cardiac Image Analysis , pp. 4488-4491.	
	Schaerer, Joël	CNRS UMR#5220, Inserm U630, Univ. of Lyon
	Clarysse, Patrick	CNRS UMR#5220, Inserm U630, Univ. of Lyon
	Pousin, Jérôme	Insa de Lyon
10:30-12:00		SaP1B4.6
	Myocardial Perfusion Assessment by Use of System Identification in a One-Compartment Model , pp. 4492-4495.	
	Kocher, Michel	Univ. of Applied Sciences Geneva
	Daire, Jean-Luc	Geneva's Univ. Hospital
	Thévenaz, Philippe	École Pol. fédérale de Lausanne
	Schindler, Thomas Hellmut	Geneva's Univ. Hospital
	Keller, Pierre-Frédéric	Geneva's Univ. Hospital
	Didier, Dominique	Geneva's Univ. Hospital
	Vallée, Jean-Paul	Geneva's Univ. Hospital
10:30-12:00		SaP1B4.7
	MR/CT Multimodal Registration of Short-Axis Slices in CT Volumes , pp. 4496-4499.	
	CHENOUNE, YASMINA	Univ. Paris 12 Val-de-Marne
	BOUAOUNE, YASMINA	Univ. Paris 12 Val-de-Marne
	DELECHELLE, ERIC	Univ. Paris 12 Val-de-Marne
	PETIT, ERIC	Univ. Paris 12 Val-de-Marne
	GAROT, JEROME	Univ. Paris 12
	RAHMOUNI, ALAIN	Hopital Henri MONDOR

10:30-12:00		SaP1B4.8
Blood Flow Visualization of Left Atrial Spontaneous Echo Contrast (SEC) Using Gradient Based Optical Flow Estimation , pp. 4500-4503.		
Tanaka, Akira		Fukushima Univ.
Saijo, Yoshifumi	Inst. of Development Aging and Cancer, TohokuUniversity	
10:30-12:00		SaP1B4.9
Automatic Detection of End Systole within a Sequence of Left Ventricular Echocardiographic Images Using Autocorrelation and Mitral Valve Motion Detection , pp. 4504-4507.		
Kachenoura, Nadjia		INSERM
Delouche, Annie		INSERM
Herment, Alain		INSERM
FROUIN, Frederique		INSERM
Diebold, Benoit	Hôpital Europeen Georges Pompidou	
10:30-12:00		SaP1B4.10
An Automated Myocardial Segmentation in Cardiac MRI , pp. 4508-4511.		
EL-Berbari, Racha		INSERM
Bloch, Isabelle	GET- Télécom Paris (ENST) - CNRS UMR 5141 LTCI	
Redheuil, Alban		HEGP
Angelini, Elsa	Ec. Nat. Superieure des Telecom	
Mousseaux, Elie		HEGP
FROUIN, Frederique		INSERM
Herment, Alain		INSERM
10:30-12:00		SaP1B4.11
Temporal Tracking of Coronaries in Multi-Slice Computed Tomography , pp. 4512-4515.		
Laquittion, Soizic		Univ. of Rennes 1
Boldak, Cezary		Inst. of Bialystok
Toumoulin, Christine		Univ. de Rennes I
10:30-12:00		SaP1B4.12
Analysis of Cardiac Diffusion Tensor Magnetic Resonance Images Using Sparse Representation , pp. 4516-4519.		
Bao, Iijun		INSA-Lyon
ZHU, Yuemin		-
Liu, Wanyu		Harbin Inst. of Tech.
robini, marc		CNRS UMR 5220
Pu, ZhaoBang		Harbin Inst. of Tech.
Magnin, Isabelle		INSA
10:30-12:00		SaP1B4.13
In Vivo MR Coronary Artery Imaging in Mice , pp. 4520-4523.		
Wu, Yin		Univ. of Hong Kong
Wu, Ed X.		The Univ. of Hong Kong

SaP1B5		Forum 5&6
Retrieval of Image Content for Medical Diagnosis and Screening (Poster Session)		
Chair: Lerallut, Jean-Francois		Univ. de Tech. de Compiegne
Co-Chair: Cazuguel, Guy		GET/ENST Bretagne
10:30-12:00		SaP1B5.1
Multiresolution Analysis and Classification of Small Bowel Medical Images , pp. 4524-4527.		
Khademi, April		Univ. of Toronto
Krishnan, Sridhar		Ryerson Univ.
10:30-12:00		SaP1B5.2
Venous Thrombosis Supervised Image Indexing and Fuzzy Retrieval , pp. 4528-4531.		
DAHABIAH, Anas		GET-ENST bretagne
Puentes, John		INSERM - GET ENST Bretagne
Solaiman, Basel		GET-ENST Bretagne
10:30-12:00		SaP1B5.3
Content Based Image Retrieval Based on Wavelet Transform Coefficients Distribution , pp. 4532-4535.		
Lamard, Mathieu		Univ. de Bretagne Occidentale
Cazuguel, Guy		GET/ENST Bretagne
QUELLEC, Gwenole		GET/ENST Bretagne
Bekri, Lynda	CHU Morvan Brest, Service d'ophtalmologie	
Roux, Christian		ENST Bretagne - INSERM
Cochener, Béatrice		CHU Morvan
10:30-12:00		SaP1B5.4
Multimedia Medical Case Retrieval Using Decision Trees , pp. 4536-4539.		
QUELLEC, Gwenole		GET/ENST Bretagne
Lamard, Mathieu		Univ. de Bretagne Occidentale
Bekri, Lynda	CHU Morvan Brest, Service d'ophtalmologie	
Cazuguel, Guy		GET/ENST Bretagne
Cochener, Béatrice		CHU Morvan
Roux, Christian		ENST Bretagne - INSERM
10:30-12:00		SaP1B5.5
Network Collaborative Environment for Human Tissues 3D Modeling , pp. 4540-4543.		
Krsek, Premysl		Faculty of Information Tech. Brno Univ. of

SaP1C1	Forum 5&6
Transducers, Solid State Sensors and Systems (Poster Session)	
Co-Chair: Sadowski, Janusz	VTT Tech. Res. Centre
10:30-12:00	SaP1C1.1
Use of Ni Electrodes Chronoamperometry for Improved Diagnostics of Diabetes and Cardiac Diseases , pp. 4544-4547.	
BRUNSWICK, PHILIPPE	IMPETO MEDICAL
10:30-12:00	SaP1C1.2
Fat Thickness Measurement Using Optical Technique with Miniaturized Chip LEDs: A Preliminary Human Study , pp. 4548-4551.	
Hwang, In Duk	Samsung Advanced Inst. of Tech.
Shin, Kunsoo	Samsung Advanced Inst. of Tech.
10:30-12:00	SaP1C1.3
Optical Characteristics of Flowing Blood: Effects on the Pulse Oximeter , pp. 4552-4555.	
Sakamoto, Katsuyuki	Chiba Inst. of Science
10:30-12:00	SaP1C1.4
Remote Point-Of-Gaze Estimation with Free Head Movements Requiring a Single-Point Calibration , pp. 4556-4560.	
Guestrin, Elias Daniel	Univ. of Toronto
Eizenman, Moshe	Univ. of Toronto
10:30-12:00	SaP1C1.5
Support Vector Machines As Multivariate Calibration Model for Prediction of Blood Glucose Concentration Using a New Non-Invasive Optical Method Named Pulse Glucometry , pp. 4561-4563.	
Ogawa, Mitsuhiro	Kanazawa-Univ.
Yamakoshi, Yasuhiro	TYT Inst. of Tech. Co., Ltd.
Satoh, Makoto	Kanazawa-Univ.
Nogawa, Masamichi	Kanazawa Univ.
Yamakoshi, Takehiro	Kanazawa Univ.
Tanaka, Shinobu	Kanazawa Univ.
Rolfe, Peter	Oxford BioHorizons Ltd
Tamura, Toshiyo	Chiba Univ. Graduate School of Engineering
Yamakoshi, Ken-ichi	Kanazawa Univ.
10:30-12:00	SaP1C1.6
Measurement of Temperature Differences between Micro-Regions in Water Using Near-Infrared Spectroscopy , pp. 4564-4567.	
Kakuta, Naoto	Kyushu Univ.
Ozaki, Atsushi	Kyushu Univ.
Li, Fuguo	Univ. of Electro-Communications
Arimoto, Hidenobu	Natl Inst. of Advd Industrial Sci & Tech.
Yamada, Yukio	Univ. of Electro-Communications
10:30-12:00	SaP1C1.7
A New Method for the Quantification of Breathing , pp. 4568-4571.	
Johnson, Michelle	Univ. of Alabama in Huntsville
Price, Patrick	Univ. of Alabama in Huntsville
Jovanov, Emil	Univ. of Alabama in Huntsville
10:30-12:00	SaP1C1.8
Scanpath-Based Analysis of Objects Conspicuity in Context of Human Vision Physiology , pp. 4572-4575.	
Augustyniak, Piotr	AGH Univ. of Science and Tech.
10:30-12:00	SaP1C1.9
A Pilot Study on Using Derivatives of Photoplethysmographic Signals As a Biometric Identifier , pp. 4576-4579.	
Yao, Jianchu	East Carolina Univ.
SUN, XIAODONG	EAST CAROLINA Univ.
WAN, YONGBO	SHAANXI Univ. OF SCIENCE AND Tech.
10:30-12:00	SaP1C1.10
Experimental and Numerical Study on Optimal Spot-Electrodes Arrays in Transthoracic Electrical Impedance Cardiography , pp. 4580-4583.	
Ikarashi, Akira	Ishikawa Sunrise Industries Creation
Nogawa, Masamichi	Kanazawa Univ.
Tanaka, Shinobu	Kanazawa Univ.
Yamakoshi, Ken-ichi	Kanazawa Univ.
10:30-12:00	SaP1C1.11
In Vivo Characterization of Viscoelastic Properties of Human Skin Using Dynamic Micro Indentation , pp. 4584-4587.	
Boyer, Gaetan	CNRS Ec. centrale de Lyon
Zahouani Hassan, Hassan	Ec. centrale de Lyon
lebot alain, alain	Ec. centrale de Lyon
laquieze leslie, leslie	Ec. centrale de Lyon
10:30-12:00	SaP1C1.12
Sound Propagation in Liquid-Filled Arterial Segments: Measurements and Model Predictions , pp. 4588-4591.	
Kyle, Aaron M.	Purdue Univ.
Albors, Gabriel O.	Univ. of Puerto Rico - Mayagüez
Wodicka, George R.	Purdue Univ.
Juan, Eduardo J.	Univ. of Puerto Rico - Mayagüez

SaP1C2		Forum 5&6
Genomics and Computational Biology (Poster Session)		
10:30-12:00		SaP1C2.1
Mdview: A Visualization of the Polymorphism of Mdr1 Protein in Breast Cancer , pp. 4592-4594.		
Xhemo, Edlira	Tenon Hospital; Univ. Paris 6	
Fajac, Anne	Tenon Hospital	
Boire, Jean-Yves	INSERM	
Levy, Pierre	Assistance Publique Hopitaux de Paris, Inserm	
10:30-12:00		SaP1C2.2
Analysing Gene Regulatory Networks by Both Constraint Programming and Model-Checking , pp. 4595-4598.		
Fromentin, Jonathan	Ec. Centrale de Nantes	
COMET, Jean-Paul	Univ. of Evry	
LE GALL, Pascale	Univ. of Evry	
Roux, Olivier	Ec. Centrale de Nantes	
10:30-12:00		SaP1C2.3
An Optimal Algorithm for Enumerating State Space of Stochastic Molecular Networks with Small Copy Numbers of Molecules , pp. 4599-4602.		
Cao, Youfang	Shanghai Jiao Tong Univ.	
Liang, Jie	Univ. of Illinois at Chicago	
10:30-12:00		SaP1C2.4
Validation of Biological Models with Temporal Logic and Timed Hybrid Petri Nets , pp. 4603-4608.		
Troncale, Sylvie	Univ. of Evry and CNRS	
COMET, Jean-Paul	Univ. of Evry	
Bernot, Gilles	Univ. of Evry and Genopole	
10:30-12:00		SaP1C2.5
Reconstruction of Chemical Molecules from Images , pp. 4609-4612.		
Algorri, Maria-Elena	Inst. Tecnológico Autonomo de Mexico	
Zimmermann, Marc	Fraunhofer Inst. for Algorithms and Scientific Computing	
Friedrich, Christoph M.	Fraunhofer Inst. for Algorithms and Scientific Computing	
Akle, Santiago	Inst. Tecnológico Autonomo de Mexico	
Hofmann-Apitius, Martin	Fraunhofer Inst. for Algorithms and Scientific Computing	
10:30-12:00		SaP1C2.6
Applications of Diffusion Maps in Gene Expression Data-Based Cancer Diagnosis Analysis , pp. 4613-4616.		
Xu, Rui	Univ. of Missouri - Rolla	
Damelin, Steven	Georgia Southern Univ.	
Wunsch, Donald	Univ. of Missouri - Rolla	
SaP1C3		Forum 5&6
Expression Profiling and Algorithms II (Poster Session)		
10:30-12:00		SaP1C3.1
Routes to Identify Marker Genes for Microarray Classification , pp. 4617-4620.		
Schachtner, Reinhard	Univ. of Regensburg	
Lutter, Dominik	Univ. Hospital Regensburg	
Stadthanner, Kurt	Univ. of Regensburg	
Lang, Elmar W.	Univ. of Regensburg	
Schmitz, Gerd	Univ. Hospital Regensburg	
Tome, Ana Maria	Univ. de Aveiro	
Gomez Vilda, Pedro	Univ. Pol. de Madrid	
10:30-12:00		SaP1C3.2
A Graph-Theoretic Technique for Classification of Normal and Tumor Tissues Using Gene Expression Microarray Data , pp. 4621-4624.		
Kim, Saejoon	Sogang Univ.	
10:30-12:00		SaP1C3.3
Semi-Automated Clustering of Gene Expression Data Sets , pp. 4625-4628.		
Kim, Minh	Electronics and Telecommunications Res. Inst.	
Jung, Ho-Youl	Electronics and Telecommunications Res. Inst.	
Chung, Myungguen	Electronics and Telecommunications Res. Inst. (ETRI)	
Kim, Pora	Electronics and Telecommunications Res. Inst. (ETRI)	
Park, Seon-Hee	Electronics and Telecommunications Res. Inst. (ETRI)	
Park, Soo-Jun	Electr & Telecomm Res. Inst.	
10:30-12:00		SaP1C3.4
Linear Predictive Coding and Wavelet Decomposition for Robust Microarray Data Clustering , pp. 4629-4632.		
Istepanian, Robert	Kingston Univ.	
Sungoor, Ala	Kingston Univ.	
Jean Christophe, Nebel	Kingston Univ.	
10:30-12:00		SaP1C3.5
Improved Bolstering Error Estimation for Gene Ranking , pp. 4633-4636.		
Huynh, Kiet	Georgia Inst. of Tech.	
Phan, John H.	Georgia Inst. of Tech.	
Vo, Tan Minh	Georgia Inst. of Tech.	
Wang, May Dongmei	Georgia Tech. and Emory Univ.	

10:30-12:00		SaP1C3.6
Extending Microarray Quality Control and Analysis Algorithms to Illumina Chip Platform , pp. 4637-4640.		
Stokes, Todd		Georgia Inst. of Tech.
Han, Xiao		Georgia Inst. of Tech.
Moffitt, Richard A.		Georgia Inst. of Tech.
Wang, May Dongmei		Georgia Tech. and Emory Univ.

SaP1C4		Forum 5&6
Heart Rate and Blood Pressure Variability III (Poster Session)		

10:30-12:00		SaP1C4.1
Geometric Measures of Poincare Plots for the Detection of Small Sympathovagal Shifts , pp. 4641-4644.		
Thong, Tran		Oregon Health & Science Univ.

10:30-12:00		SaP1C4.2
Effect of Amplitude Criteria on Operating Characteristic of Detection for OSAH Events with Oxygen Saturation , pp. 4645-4648.		
Lee, Khuan Y.		Univ. Teknologi MARA
Bister, Michel		Univ. of Nottingham
Salleh, Yusof Md		Univ. Tech. Mara
Blanchfield, Peter		Univ. of Nottingham

10:30-12:00		SaP1C4.3
The Effect of Music on Hypertensive Patients , pp. 4649-4651.		
Teng, Xiaofei		The Chinese Univ. of Hong Kong
Wong, Mico Yee Man		The Chinese Univ. of Hong Kong
Zhang, Yuan-Ting		The Chinese Univ. of Hong Kong

10:30-12:00		SaP1C4.4
Metabolic Variability Analysis Using a Mixing Chamber-Breath by Breath Indirect Calorimeter and the Clino-Ortho Maneuver , pp. 4652-4655.		
Cadena, Miguel		Univ. Autonoma Metropolitana
Infante, Oscar		Inst. Nacional de Cardiologia Dr. Ignacio Chavez
Sacristan, Emilio		Univ. Autónoma Metropolitana

10:30-12:00		SaP1C4.5
Ultra Short Term Analysis of Heart Rate Variability for Monitoring Mental Stress in Mobile Settings , pp. 4656-4659.		
Salahuddin, Lizawati		Information and Communications Univ.
Jeong, Myeong Gi		Information and Communications Univ.
Kim, Desok		Information and Communications Univ.
Cho, Jaeeol		Samsung Electronics

10:30-12:00		SaP1C4.6
Wavelet Coherence Detects Non-Autonomic Heart Rate Fluctuations in Familial Amyloidotic Polyneuropathy , pp. 4660-4662.		
Östlund, Nils		Univ. Hospital
Suhr, Ole		Umeå Univ.
Wiklund, Urban		Univ. hospital

SaP1C5		Forum 5&6
Orthopaedic and Musculo-Skeletal Biomechanics III (Poster Session)		

10:30-12:00		SaP1C5.1
Transorbital Endoscopic Image Guidance , pp. 4663-4666.		
Atuegwu, Nkiruka Chioma		Vanderbilt Univ.
Mawn, Louise		Vanderbilt
Galloway, Bob		Vanderbilt

10:30-12:00		SaP1C5.2
Biomechanical Study on the Sensorial Epithelium of Otolithic Organs , pp. 4667-4670.		
Ciaravella, Gaetano		IMT Lucca Inst. for Advanced Studies
bennequin, daniel		Univ. Paris 7 ,and LPPA to the Coll. de France
Laschi, Cecilia		Scuola Superiore Sant'Anna

10:30-12:00		SaP1C5.3
Effectiveness of Moulded Insoles in Reducing Plantar Pressure in Diabetic Patients , pp. 4671-4674.		
Zequera, Martha		Pontificia Univ. Javeriana

10:30-12:00		SaP1C5.4
Reliable Model-Based Kinematics Analysis System for Articulated Fingers , pp. 4675-4678.		
Chang, Cheung-Wen		Cheng Kung Univ.
Kuo, Lie-Chieh		National Cheng Kung Univ.
Chen, Yen-Ting		National Cheng Kung Univ.
Su, Fong-Chin		National Cheng Kung Univ.
Jou, I-Ming		National Cheng Kung Univ.
Sun, Yung-Nien		National Cheng Kung Univ.

10:30-12:00		SaP1C5.5
A Rigid Body Spring Model to Investigate the Lateral Shift - Restraining Force Behavior of the Patella , pp. 4679-4682.		
Jafari, Ali		Sharif Univ. of Tech.
Farahmand, Farzam		Sharif Univ. of Tech.
Meghdari, Ali		Sharif Univ. of Tech.

10:30-12:00		SaP1C5.6
	3D Endoscopic Approach for Endonasal Sinus Surgery , pp. 4683-4686.	
	Moral, Analia Ines	Tech. Univ. of Braunschweig
	kunkel, Maria Elizete	Tech. Univ. Braunschweig
	Markus, Rilke	TU BS
	Wagner, Ingo	Bonn Univ.
	Eichhorn, Klaus W.G.	Univ. of Bonn, Germany
	Bootz, F	Bonn Univ.
	Wahl, Friedrich	Tech. Univ. of Braunschweig
	Kathrin, Tingelhoff	Bonn Univ.
10:30-12:00		SaP1C5.7
	Estimation of Ground Reaction Force and Zero Moment Point on a Powered Ankle-Foot Prosthesis , pp. 4687-4692.	
	Martinez-Villalpando, Ernesto Carlos	Massachusetts Inst. of Tech.
	Herr, Hugh	MIT
	Farrell, Matthew	MIT
10:30-12:00		SaP1C5.8
	Performance Analysis of an Optoelectronic Localization System for Monitoring Brain Lesioning with Proton Beams , pp. 4693-4698.	
	Shihadeh, Fadi	California State Univ. San Bernardino
	Schulte, Reinhard	Loma Linda Univ. Medical Center
	Schubert, Keith Evan	California State Univ. San Bernardino
	Chakrapani, Pani	Univ. of Redlands
10:30-12:00		SaP1C5.9
	Deformation Analysis of the Human Femur by Holographic Interferometry , pp. 4699-4702.	
	MATSUMOTO, Toshiro	Kinki Univ.
	Watanabe, Toshiaki	Kinki Univ.
	Kojima, Arata	Kansai Medical Univ.

SaP1D1	Forum 5&6
Brain-Computer Interfaces IV (Poster Session)	

10:30-12:00		SaP1D1.1
	Introduction to NeuroComm: A Platform for Developing Real-Time EEG-Based Brain-Computer Interface Applications , pp. 4703-4706.	
	Wang, Chuanchu	Inst. for Infocomm Res.
	Zhang, Haihong	Inst. for Infocomm Res.
	Phua, Koksoon	Inst. for Infocomm Res.
	Dat, Tran Huy	Inst. for Infocomm Res.
	Guan, Cuntai	Inst. for Infocomm Res.
10:30-12:00		SaP1D1.2
	A Customizable Multi-Channel Stimulator for Cortical Neuroprosthesis , pp. 4707-4710.	
	Ferrandez, Jose M.	Univ. Pol. de Cartagena
	Fernandez, Eduardo	Univ. Miguel Hernandez
	Bonomini, Paula	Univ. Miguel Hernandez
	Liaño, Enrique	Univ. Miguel Hernandez
	Toledo, Javier	Univ. Pol. de Cartagena
	Martinez, J.Javier	Univ. Pol. de Cartagena
10:30-12:00		SaP1D1.3
	Comparative Study on the Insertion Behavior of Cerebral Microprobes , pp. 4711-4714.	
	Haj Hosseini, Neda	Univ. of Freiburg, IMTEK
	Hoffmann, Rüdiger	Univ. of Freiburg
	Kisban, Sebastian Aron	Univ. of Freiburg
	Stieglitz, Thomas	Univ. of Freiburg
	Paul, Oliver	Univ. of Freiburg
	Ruther, Patrick	Univ. of Freiburg
10:30-12:00		SaP1D1.4
	Brain Computer Interface Research at the Neuroscience Department of the "Tor Vergata" University of Rome, Italy , pp. 4715-4718.	
	Quitadamo, Lucia Rita	Univ. of Rome
	Abbatati, Manuel	Univ. of Rome
	Saggio, Giovanni	Univ. of Rome
	Marciani, Maria Grazia	Tor Vergata Univ.
	Bianchi, Luigi	Univ. of Rome
10:30-12:00		SaP1D1.5
	Estimation of Force Motor Command for NIRS-Based BMI , pp. 4719-4722.	
	Tsubone, Tadashi	Nagaoka Univ. of Tech.
	Tsutsui, Kiyotaka	Nagaoka Univ. of Tech.
	Wada, Yasuhiro	Nagaoka Univ. of Tech.
10:30-12:00		SaP1D1.6
	Research for Estimating Direction of Saccadic Eye Movements by Single Trial Processing , pp. 4723-4726.	
	Funase, Arao	Naogyia Inst. of Tech.
	Hashimoto, Tetsuro	Nagoya Inst. of Tech.
	Yagi, Tohru	Tokyo Inst. of Tech.
	Barros, Allan	Federal Univ. of the Maranhao
	Cichocki, Andrzej	BSI RIKEN
	TAKUMI, Ichi	Naogyia Inst. of Tech.

10:30-12:00		SaP1D1.7
	Statistical Selection of Multiple-Input Multiple-Output Nonlinear Dynamic Models of Spike Train Transformation , pp. 4727-4730.	
Song, Dong		Univ. of Southern California
Chan, Rosa		Univ. of Southern California
Marmarelis, Vasilis		Univ. of Southern California
Hampson, Robert		Wake Forest Univ.
Deadwyler, Sam		Wake Forest Univ.
Berger, Theodore		Univ. of Southern California
10:30-12:00		SaP1D1.8
	A Study on the Frontal Cortex in Psychophysical Tasks Using Near -Infrared Spectroscopy , pp. 4731-4734.	
Yagi, Tohru		Tokyo Inst. of Tech.
Ogata, Hajime		Tokyo Inst. of Tech.
Mukai, Toshiharu		The Inst. of Physical and Chemical Res. (RIKEN)
10:30-12:00		SaP1D1.9
	Laminar Characterization of Spiking Activity in the Rat Motor Cortex , pp. 4735-4738.	
Parikh, Hiram		Univ. of Michigan
Marzullo, Timothy		Univ. of Michigan
Yazdan-Shahmorad, Azadeh		Univ. of Michigan
Gage, Gregory J.		Univ. of Michigan
Kipke, Daryl		Univ. of Michigan
10:30-12:00		SaP1D1.10
	Preliminary Experimentation on Vibrotactile Feedback in the Context of Mu-Rhythm Based BCI , pp. 4739-4742.	
Cincotti, Febo		Fondazione Santa Lucia IRCCS
Kauhanen, Laura		Helsinki Univ. of Tech.
Aloise, Fabio		Fondazione Santa Lucia IRCCS
Palomäki, Tapio		Helsinki Univ. of Tech.
Caporusso, Nicholas		Fondazione Santa Lucia IRCCS
Jylänki, Pasi		Helsinki Univ. of Tech.
Mattia, Donatella		Fondazione Santa Lucia IRCCS
Babiloni, Fabio		Univ. of Rome
Vanacker, Gerolf		Katholieke Univ. Leuven, Belgium
Nuttin, Marnix		Katholieke Univ. Leuven, Belgium
Marciani, Maria Grazia		Tor Vergata Univ.
Millán, José del R.		IDIAP Res. Inst.
SaP1D2		Forum 5&6
Neuromodulation II - Neurophysiology (Poster Session)		
Chair: Veltink, Peter		Univ. of Twente
Co-Chair: Durand, Dominique		Case Western Res. Univ.
10:30-12:00		SaP1D2.1
	The Rtms Effect on Perceptual Reversals of Ambiguous Figures , pp. 4743-4746.	
Ge, Sheng		Kyushu Univ.
Ueno, Shoogo		Kyushu Univ.
Iramina, Keiji		Kyushu Univ.
10:30-12:00		SaP1D2.2
	Adaptation of Human Brain Bioelectrical Activity to Low-Level Microwave , pp. 4747-4750.	
Bachmann, Maie		Tallinn Univ. of Tech.
Rubljova, Jekaterina		Tallinn Univ. of Tech.
Lass, Jaanus		Tallinn Univ. of Tech.
Tomson, Ruth		Tallinn Univ. of Tech.
Tuulik, Viuu		Tallinn Univ. of Tech.
Hinrikus, Hiie		Tallinn Univ. of Tech.
10:30-12:00		SaP1D2.3
	Temporal Aspect of Three Visual Search Tasks by Using TMS , pp. 4751-4754.	
Matsuoka, Akira		Kyushu Univ.
Kawamura, Yuuji		Kyushu Univ.
Ge, Sheng		Kyushu Univ.
Ueno, Shoogo		Kyushu Univ.
Iramina, Keiji		Kyushu Univ.
10:30-12:00		SaP1D2.4
	A Spiking Neural Network of the CA3 of the Hippocampus Can Be a Neural Prosthesis for Lost Cognitive Functions , pp. 4755-4758.	
Raghavan, Brijesh		Anna Univ.
Gurubharan, Ravindaran		Anna Univ.
10:30-12:00		SaP1D2.5
	Experimental Platform for the Study of Region Specific Excitation and Inhibition in Neural Tissue , pp. 4759-4762.	
Ross, James		Georgia Inst. of Tech.
Reddy, Nakul		Georgia Inst. of Tech.
Bakkum, Douglas		Georgia Inst. of Tech.
Potter, Steve		Georgia Inst. of Tech.
DeWeerth, Stephen P.		Georgia Tech. Univ.

SaP1D3	Forum 5&6
Robotic Devices for Rehabilitation III (Poster Session)	
Chair: Patton, James (Jim)	Rehab Inst. Chicago & Northwestern U.
10:30-12:00	SaP1D3.1
Occupational Therapists' Evaluation of Haptic Motor Rehabilitation , pp. 4763-4766.	
Kayyali, Ruba	Univ. of Ottawa
Alamri, Atif	Univ. of Ottawa
Eid, Mohammad	Univ. of Ottawa
Iglesias, Rosa	Univ. of Ottawa
Shirmohammadi, Shervin	Univ. of Ottawa
El Saddik, Abdulmotaleb	Univ. of Ottawa
Lemaire, Edward	The Ottawa Hospital Rehab Centre
10:30-12:00	SaP1D3.3
Advanced Robust Tracking Control of a Powered Wheelchair System , pp. 4767-4770.	
Nguyen, Nghia Tuan	Univ. of Tech. Sydney
Nguyen, Hung	Univ. of Tech. Sydney
Su, Steven Weidong	Univ. of Tech. Sydney
10:30-12:00	SaP1D3.4
Obstacle Avoidance for Power Wheelchair Using Bayesian Neural Networ , pp. 4771-4774.	
Trieu, Hoang Tuyen	Univ. of Tech. Sydney
Nguyen, Hung	Univ. of Tech. Sydney
Willey, Keith	Univ. of Tech. Sydney
10:30-12:00	SaP1D3.5
Real-Time Obstacle Detection for an Autonomous Wheelchair Using Stereoscopic Cameras , pp. 4775-4778.	
Nguyen, Thanh Hai	Univ. of Tech. Sydney
Nguyen, Jordan Son	Univ. of Tehcnology, Sydney
Pham, Duc Minh	Univ. of Tehcnology, Sydney
Nguyen, Hung	Univ. of Tech. Sydney
10:30-12:00	SaP1D3.6
Development of an Automatic Ankle Stretching Device for Lower Limb Monoplegia Patients , pp. 4779-4781.	
Choi, Jungheon	Inje Univ.
Cho, Jongman	Inje Univ.
Nam, Taewoo	Inje Univ.
Park, Junho	Inje Univ.
10:30-12:00	SaP1D3.7
Development of Tilt Table with Visual Feedback Function for Hemiplegia Patients , pp. 4782-4785.	
Cho, Jongman	Inje Univ.
Choi, Jungheon	Inje Univ.
Nam, Taewoo	Inje Univ.
Park, Junho	Inje Univ.
Ibrahim, Fatimah	Univ. of Malaya
10:30-12:00	SaP1D3.8
Suggestion of One-Hand Type Power-Assisted Wheelchair and Driving Control for Persons with Hemiplegia , pp. 4786-4789.	
Nakamura, Fumitoshi	Musashi Inst. of Tech.
Watada, Masaya	Musashi Inst. of Tech.
Kim, Yong-Jae	Musashi Inst. of Tech.
10:30-12:00	SaP1D3.9
Design Considerations for a Personalized Wheelchair Navigation System , pp. 4790-4793.	
Ding, Dan	Univ. of Pittsburgh
Parmanto, Bambang	Univ. of Pittsburgh
Karimi, Hassan	Univ. of Pittsburgh
Roongpiboonsopit, Duangduen	Univ. of Pittsburgh
Pramana, Gede	Univ. of Pittsburgh
Conahan, Thomas	Univ. of Pittsburgh
Kasemsuppakorn, Piyawan	Univ. of Pittsburgh
10:30-12:00	SaP1D3.10
Development of a "Neuro-Orthosis" for the Control of Wrist Movements at Rheumatic Diseases , pp. 4794-4797.	
Ugurlu, Umit	Bogazici Univ.
Ozkan, Mehmed	Bogazici Univ.
Ozdogan, Huri	Istanbul Univ.
10:30-12:00	SaP1D3.11
An Experimental Method for Measuring the Moment of Inertia of an Electric Power Wheelchair , pp. 4798-4801.	
Wang, Hongwu	Univ. of Pittsburgh
Grindle, Garrett	Univ. of Pittsburgh
Connor, Samuel	Human Engineering Res. Lab.
Cooper, Rory	Univ. of Pittsburgh

SaP1D4	Forum 5&6
EMG Applications (Poster Session)	
10:30-12:00	SaP1D4.1
The Relationship between SEMG and Change in Pennation Angle of Brachialis , pp. 4802-4805.	
Shi, Jun	Shanghai Univ.
Zheng, Yongping	The Hong Kong Pol. Univ.
Yan, Zhuangzhi	Shanghai Univ.

10:30-12:00		SaP1D4.2
	SVM for Estimation of Wrist Angle from Sonomyography and SEMG Signals , pp. 4806-4809.	
	Shi, Jun	Shanghai Univ.
	Zheng, Yongping	The Hong Kong Pol. Univ.
	Yan, Zhuangzhi	Shanghai Univ.
10:30-12:00		SaP1D4.3
	Reciprocal EMG Controlled FES for Pathological Tremor Suppression of Forearm , pp. 4810-4813.	
	Zhang, Dingguo	Nanyang Tech. Univ.
	Ang, Wei Tech	Nanyang Tech. Univ.
10:30-12:00		SaP1D4.4
	A Ubiquitous Wearable Unit for Controlling Muscular Fatigue During Cycling Exercise Sessions , pp. 4814-4817.	
	Kiryu, Tohru	Niigata Univ.
	Yamashita, Kazuki	Niigata Univ.
10:30-12:00		SaP1D4.5
	Relationship between Muscle Tension and Hardness in Isolated Frog Muscle with Electrical Stimulation , pp. 4818-4821.	
	Uchiyama, Takanori	Keio Univ.
	Kato, Ryoko	Graduate School of Keio Univ.
	Murayama, Mitsuyoshi	Keio Univ.
10:30-12:00		SaP1D4.6
	Time Dependency Assessment of Muscular Fatigue Index and Hand Tremor under Operating Conditions , pp. 4822-4825.	
	Ma, Xianghong	Aston Univ.
10:30-12:00		SaP1D4.7
	Hidden Markov Multivariate Autoregressive (HMM-Mar) Modeling Framework for Surface Electromyography (sEMG) Data , pp. 4826-4829.	
	Chiang, Joyce	Univ. of British Columbia
	Wang, Z. Jane	Univ. of British Columbia
	McKeown, Martin	Univ. of British Columbia
10:30-12:00		SaP1D4.8
	Hand Pose Estimation Using EMG Signals , pp. 4830-4833.	
	Yoshikawa, Masahiro	Univ. of Tsukuba
	Mikawa, Masahiko	Univ. of Tsukuba
	Tanaka, Kazuyo	Univ. of Tsukuba
10:30-12:00		SaP1D4.9
	A Low Cost Grip Transducer Based Instrument to Quantify Fingertip Touch Force , pp. 4834-4837.	
	Boukhenous, samir	Houari Boumediene Univ.
	Boukhenous samir, Attari moukhtar	Houari Boumediene Univ.
10:30-12:00		SaP1D4.10
	Extracting Neural Drives from Surface EMG: A Generative Model and Simulation Studies , pp. 4838-4841.	
	Jiang, Ning	Univ. of New Brunswick
	parker, philip	Univ. of new brunswick
	Englehart, Kevin	Univ. of New Brunswick
10:30-12:00		SaP1D4.11
	A Real-Time Pattern Recognition Based Myoelectric Control Usability Study Implemented in a Virtual Environment , pp. 4842-4845.	
	Hargrove, Levi	Univ. of New Brunswick
	Losier, Yves	Inst. of Biomedical Engineering, Univ. of New
	Lock, Blair	Rehabilitation Inst. of Chicago
	Englehart, Kevin	Univ. of New Brunswick
	Hudgins, Bernard	Univ. of New Brunswick
SaP1D5		Forum 5&6
Central Neuromuscular Control (Poster Session)		
10:30-12:00		SaP1D5.1
	Time-Varying Synergies in Velocity Profiles of Finger Joints of the Hand During Reach and Grasp , pp. 4846-4849.	
	Vinjamuri, Ramana	Univ. of Pittsburgh
	Mao, Zhi-Hong	Univ. of Pittsburgh
	Sclabassi, Robert	Univ. of Pittsburgh
	Sun, Mingui	Univ. of Pittsburgh
10:30-12:00		SaP1D5.2
	Vergence Transient Component: An Index to Oculomotor Learning Modification , pp. 4850-4853.	
	Alvarez, Tara	New Jersey Inst. of Tech.
	Semmlow, John	Rutgers Univ.
	Ciuffreda, Kenneth	SUNY- School of Optometry
	Gayed, Bassem	New Jersey Inst. of Tech.
	Granger-Donetti, Bérange	Essilor International
10:30-12:00		SaP1D5.3
	Saccadic Behavior During the Response to Pure Vergence Stimuli , pp. 4854-4857.	
	Semmlow, John	Rutgers Univ.
	Pedrono, Claude	Essilor International
	Alvarez, Tara	New Jersey Inst. of Tech.

10:30-12:00		SaP1D5.4
Activation of Forearm Muscles for Wrist Extension in Patients Affected by Lateral Epicondylitis , pp. 4858-4861.		
Rojas, Mónica		Tech. Univ. of Catalonia
Mañanas, Miquel Angel		Tech. Univ. of Catalonia (UPC)
Müller, Bertram		Egarsat
Chaler, Joaquim		Mutua Egara Hospital
10:30-12:00		SaP1D5.5
Formation of an Internal Model of Environment Dynamics During Upper Limb Reaching Movements: A Fuzzy Approach , pp. 4862-4865.		
MacDonald, Chad		Univ. of Texas at El Paso
Moussavi, Zahra		Univ. of Manitoba
Sarkodie-Gyan, Thompson		Univ. of Texas at El Paso
10:30-12:00		SaP1D5.6
Measurement of Distance Error in Reaching Movement of the Human Hand without Using Vision , pp. 4866-4869.		
Huang, Jian		Yokohama National Univ.
Kosaka, Sho		Yokohama National Univ.
Imamura, Yuuki		Yokohama National Univ.
Yabuta, Tetsuro		Yokohama National Univ.
10:30-12:00		SaP1D5.7
Development of a Wearable Motion Capture Suit and Virtual Reality Biofeedback System for the Instruction and Analysis of Sports Rehabilitation Exercises , pp. 4870-4874.		
Fitzgerald, Diarmaid		Univ. Coll. Dublin
Foody, John		National Univ. of Ireland Maynooth
caulfield, brian		UCD
Kelly, Daniel		National Univ. of Ireland, Maynooth
Ward, Tomas		NUIM
Markham, Charles		NUIM
McDonald, John		National Univ. of Ireland, Maynooth

SaP1D6	Forum 5&6
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Locomotion (Poster Session)		
10:30-12:00		SaP1D6.1
Support Vector Machines for Detecting Recovery from Knee Replacement Surgery Using Quantitative Gait Measures , pp. 4875-4878.		
Levinger, Pazit		La Trobe Univ.
Lai, Tze Huei, Daniel		Univ. of Melbourne
Webster, Kate		La Trobe Univ.
Begg, Rezaul		Victoria Univ.
Feller, Julian		La Trobe Univ.
10:30-12:00		SaP1D6.2
Hybrid Control of Powered Orthosis and Functional Neuromuscular Stimulation for Restoring Gait , pp. 4879-4882.		
Obinata, Goro		Nagoya Univ.
MATSUNAGA, TOSHIKI		Akita Univ. Hospital
IWAMI, TAKEHIRO		Akita Univ.
SHIMADA, YOICHI		Akita Univ. Hospital
MIYAWAKI, KAZUTO		AKITA R&D CENTER
10:30-12:00		SaP1D6.3
Tibialis Anterior EMG Activation Pattern Changes with Walking Speed During Overground and Treadmill Walking , pp. 4883-4886.		
Barrett, Alan		Univ. of Limerick
Donnelly, Alan		Univ. of Limerick
ÓLaighin, Gearóid		National Univ. of Ireland, Galway
10:30-12:00		SaP1D6.4
Regulation of Minimum Toe Clearance Variability in the Young and Elderly During Walking on Sloped Surfaces , pp. 4887-4890.		
Khandoker, Ahsan Habib		The Univ. of Melbourne
Lynch, Kate		Victoria Univ.
Karmakar, Chandan Kumar		The Univ. of Melbourne
Begg, Rezaul		Victoria Univ.
Palaniswami, Marimuthu		The Univ. of Melbourne
10:30-12:00		SaP1D6.5
Pendulum Analysis of an Integrated Accelerometer to Assess Its Suitability to Measure Dynamic Acceleration for Gait Applications , pp. 4891-4894.		
Godfrey, Alan		Univ. of Limerick
Hourigan, Timothy		Univ. of Limerick
ÓLaighin, Gearóid		National Univ. of Ireland, Galway

SaB01	Gratte Ciel 1
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Signal Pattern Classification in Biomedical Signals III (Oral Session)		
Chair: Nandi, Asoke K		The Univ. of Liverpool
12:45-13:00		SaB01.1
Unsupervised Clustering of Free-Living Human Activities Using Ambulatory Accelerometry , pp. 4895-4898.		
Nguyen, Anthony		CSIRO, ICT Centre
Moore, Darren		CSIRO, ICT Centre
McCowan, Iain		CSIRO, ICT Centre

13:00-13:15		SaB01.2
Accelerometry Based Classification of Walking Patterns Using Time-Frequency Analysis , pp. 4899-4902.		
Wang, Ning		Univ. of New South Wales
Ambikairajah, E		Univ. of New South Wales
Lovell, Nigel H		Univ. of New South Wales
Celler, Branko George		Univ. of New South Wales
13:15-13:30		SaB01.3
A Multivariate Time-Warping Based Classifier for Gesture Recognition with Wearable Strain Sensors , pp. 4903-4906.		
Giorgino, Toni		Univ. of Pavia
Tormene, Paolo		Univ. of Pavia
Quaglini, Silvana		Univ. of Pavia
13:30-13:45		SaB01.4
A Novel Approach to Recognize Hand Movements Via Semg Patterns , pp. 4907-4910.		
khezri, mahdi		sharif Univ. of Tech.
Jahed, Mehran		Sharif Univ. of Tech.
13:45-14:00		SaB01.5
Strict 2-Surface Proximal Classification of Knee-Joint Vibroarthrographic Signals , pp. 4911-4914.		
Mu, Tingting		The Univ. of Liverpool
Nandi, Asoke K		The Univ. of Liverpool
Rangayyan, Raj		Univ. of Calgary
14:00-14:15		SaB01.6
Estimating Regional Conductivity in 2D Disc Head Model by Multidimensional Support Vector Regression , pp. 4915-4918.		
Shen, Xueqin		Hebei Univ. of Tech.
Yan, Hui		City Coll. Zhejiang Univ.
Yan, Weili		Hebei Univ. of Tech.
Guo, Lei		Hebei Univ. of Tech.

SaB02 Gratte Ciel 2

Signal Processing and Physiological System Modeling VIII (Oral Session)

Chair: Conforto, Silvia		Univ. Roma TRE
Co-Chair: Giansanti, Daniele		Istituto Superiore di Sanitf
12:45-13:00		SaB02.1
Closed-Loop System Identification of Ankle Dynamics with Compliant Loads , pp. 4919-4922.		
Zhao, Yong		McGill Univ.
Kearney, Robert Edward		McGill Univ.
13:00-13:15		SaB02.2
Amplitude Demodulation of Entrained Sway to Analyze Human Postural Control , pp. 4923-4926.		
Bhatkar, Viprali		Clarkson Univ.
Pilkar, Rakesh		Clarkson Univ.
Storey, Christopher M.		Louisiana Tech. Univ.
Robinson, Charles		Clarkson Univ.
13:15-13:30		SaB02.3
Design and Costruction of Step Counters for Disable People: Preliminar Experience at the Italian Institute of Health , pp. 4927-4929.		
Maccioni, Giovanni		Istituto Superiore di Sanitf
Macellari, Velio		Istituto Superiore di Sanitf
Giansanti, Daniele		Istituto Superiore di Sanitf
13:30-13:45		SaB02.4
Classification of Motor Activities through Derivative Dynamic Time Warping Applied on Accelerometer Data , pp. 4930-4933.		
Muscillo, Rossana		Univ. Roma TRE
Conforto, Silvia		Univ. Roma TRE
Schmid, Maurizio		Univ. Roma TRE
Caselli, Paolo		Univ. Roma Tre
d'alessio, Tommaso		Univ. Roma TRE
13:45-14:00		SaB02.5
Assessment of Fall Risk Using a Pneumatic Pattern Generator , pp. 4934-4936.		
Maccioni, Giovanni		Istituto Superiore di Sanitf
Macellari, Velio		Istituto Superiore di Sanitf
Giansanti, Daniele		Istituto Superiore di Sanitf

SaB03 Bellecour 1

Electrical Source Imaging (Oral Session)

Chair: He, Bin		Univ. of Minnesota
Co-Chair: GARNERO, LINE		CNRS
12:45-13:00		SaB03.1
Modeling and Detecting Deep Brain Activity with MEG & EEG , pp. 4937-4940.		
Attal, Yohan		CNRS
Bhattacharjee, Manik		CNRS UPR640 - LENA
Yelnik, Jérôme		Inserm
Cottureau, Benoit		CNRS
Lefčvre, Julien		CNRS UPR 640
OKADA, Yoshio		Univ. of New Mexico
BARDINET, ERIC		CNRS
CHUPIN, Marie		CNRS UPR 640 LENA
Baillet, Sylvain		CNRS UPR640--LENA

13:00-13:15		SaB03.2
<i>Spatial Localization of Cortical Time-Frequency Dynamics</i> , pp. 4941-4944.		
Dalal, Sarang S.		INSERM
Guggisberg, Adrian G.		Univ. of California, San Francisco
Edwards, Erik		Univ. of California, San Francisco
Sekihara, Kensuke		Tokyo Metropolitan Univ.
Findlay, Anne M.		Univ. of California, San Francisco
Canolty, Ryan T.		Univ. of California, Berkeley
Knight, Robert T.		Univ. of California, Berkeley
Barbaro, Nicholas M.		Univ. of California, San Francisco
Kirsch, Heidi E.		Univ. of California, San Francisco
Nagarajan, Srikantan S.		Univ. of California, San Francisco
13:15-13:30		SaB03.3
<i>Challenging the Estimation of Cortical Activity from MEG with Simulated Fmri-Constrained Retinotopic Maps</i> , pp. 4945-4948.		
Gramfort, Alexandre		INRIA Sophia Antipolis
Cottureau, Benoit		CNRS
Clerc, Maureen		ENPC, ENS, INRIA
Thirion, Bertrand		INRIA Futurs
Baillet, Sylvain		CNRS UPR640--LENA
13:30-13:45		SaB03.4
<i>An Adaptive Directed Transfer Function Approach for Detecting Dynamic Causal Interactions</i> , pp. 4949-4952.		
Wilke, Christopher		Univ. of Minnesota
Ding, Lei		Univ. of Minnesota
He, Bin		Univ. of Minnesota
13:45-14:00		SaB03.5
<i>Cortical Activity and Connectivity of Human Brain During the Prisoner's Dilemma: An EEG Hyperscanning Study</i> , pp. 4953-4956.		
Babiloni, Fabio		Univ. of Rome
Astolfi, Laura		Univ. of Rome
Cincotti, Febo		Fondazione Santa Lucia IRCCS
Mattia, Donatella		Fondazione Santa Lucia IRCCS
Tocci, Andrea		Fondazione S.Lucia IRCCS
Tarantino, Annapaola		Fondazione S.Lucia IRCCS
Marciani, Maria Grazia		Tor Vergata Univ.
Salinari, Serenella		La Sapienza Univ.
Gao, Shangkai		Tsinghua Univ.
Colosimo, Alfredo		Univ. of Rome "Sapienza"
De Vico Fallani, Fabrizio		Univ. La Sapienza
14:00-14:15		SaB03.6
<i>High Resolution EEG Hyperscanning During a Card Game</i> , pp. 4957-4960.		
Babiloni, Fabio		Univ. of Rome
Tocci, Andrea		Fondazione S.Lucia IRCCS
De Vico Fallani, Fabrizio		Univ. La Sapienza
Cincotti, Febo		Fondazione Santa Lucia IRCCS
Mattia, Donatella		Fondazione Santa Lucia IRCCS
Bianchi, Luigi		Univ. of Rome
Salinari, Serenella		La Sapienza Univ.
Marciani, Maria Grazia		Tor Vergata Univ.
Colosimo, Alfredo		Univ. of Rome "Sapienza"
Astolfi, Laura		Univ. of Rome
SaB04		Bellecour 3
Eye and Breast Image Segmentation (Oral Session)		
Chair: Garcia, Maria		Univ. of Valladolid
12:45-13:00		SaB04.1
<i>Towards Automatic Grading of Nuclear Cataract</i> , pp. 4961-4964.		
Li, Huiqi		Inst. for Infocomm Res.
Lim, Joo Hwee		Inst. for Infocomm Res.
Liu, Jiang		Inst. for Infocomm Res. A*STAR
Wong, Tien Yin		National Univ. of Singapore
13:00-13:15		SaB04.2
<i>A Hybrid Segmentation Approach for Geographic Atrophy in Fundus Auto-Fluorescence Images for Diagnosis of Age-Related Macular Degeneration</i> , pp. 4965-4968.		
Lee, Noah		Columbia Univ.
Laine, Andrew		Columbia Univ.
Smith, R Theodore		Columbia Univ.
13:15-13:30		SaB04.3
<i>Feature Extraction and Selection for the Automatic Detection of Hard Exudates in Retinal Images</i> , pp. 4969-4972.		
Garcia, Maria		Univ. of Valladolid
Hornero, Roberto		Univ. of Valladolid
Sánchez, Clara I.		Univ. of Valladolid
López, María I.		Univ. of Valladolid
Díez, Ana		Univ. of Valladolid

13:30-13:45		SaB04.4
Digital Mammographic Computer Aided Diagnosis (CAD) Using Adaptive Level Set Segmentation , pp. 4973-4978.		
Ball, John	Naval Surface Warfare Center Dahlgren	
Bruce, Lori	Mississippi State Univ.	
13:45-14:00		SaB04.5
Digital Mammogram Spiculated Mass Detection and Spicule Segmentation Using Level Sets , pp. 4979-4984.		
Ball, John	Naval Surface Warfare Center Dahlgren	
Bruce, Lori	Mississippi State Univ.	
14:00-14:15		SaB04.6
Colour-Texture Based Image Analysis Method for Assessing the Hormone Receptors Status in Breast Tissue Sections , pp. 4985-4988.		
Kostopoulos, Spiros	Medical Image Processing and Analysis (M.I.P.A)	
Cavouras, Dionysios	Tech. Educational Inst. of Athens	
Daskalakis, Antonis	Medical Image Processing and Analysis (M.I.P.A) Group,Lab.	
Bougioukos, Panagiotis	Medical Image Processing and Analysis (M.I.P.A) Group,Lab.	
Georgiadis, Pantelis	Univ. of Patras	
Kagadis, George	Univ. of Patras	
Kalatzis, Ioannis	Tech. Educational Inst. of Athens	
Ravazoula, Panagiota	Department of Pathology, Univ. Hospital of Patras, Greece	
Nikiforidis, George	Medical School, Univ. of Patras	

SaB05 Tête d'Or Lounge
Wearable and Portable Communicative Systems I (Oral Session)

Chair: Korhonen, Ilkka		VTT
12:45-13:00		SaB05.1
Walking Analysis Using an Acceleration Sensor , pp. 4989-4992.		
TSURUOKA, Yuriko	The Inst. of Statistical Mathematics	
Shibasaki, Ryosuke	Center for Spatial Information Science, Univ. of Tokyo	
13:00-13:15		SaB05.2
Automatic Recognition of Postural Allocations , pp. 4993-4996.		
Sazonov, Edward	Clarkson Univ.	
Krishnamurthy, Vidya	Clarkson Univ.	
Makeyev, Oleksandr	Clarkson Univ.	
Ray, Browning	Univ. of Colorado Health Sciences Center	
Hill, James	Univ. of Colorado Health Sciences Center	
Schutz, Yves	Univ. of Lausanne	
13:15-13:30		SaB05.3
Surveillance of Infants at Risk of Apparent Life Threatening Events (ALTE) with the BBA Bootee: A Wearable Multiparameter Monitor , pp. 4997-5000.		
Rimet, Yves	Hospital Center of Aix-en-Provence	
Brusquet, Yves	Hospital Center of Aix-en-Provence	
Ronayette, Dominique	Univ. Hospital Center of Limoges	
Dageville, Christian	Univ. Hospital Center of Nice	
Lubrano-Lavadera, Marc	Univ. Hospital Center of Rouen	
Mallet, Eric	Univ. Hospital Center of Rouen	
Rambaud, Caroline	Raymond Poincaré Hospital	
Terlaud, Christian	Hospital Center of Saint-Junien	
Silve, Jérôme	TAM-Télésanté	
Lerda, Olivier	TAM-Télésanté	
Netchiporouk, Larissa	TAM-Télésanté	
Weber, Jean-Luc	TAM-Télésanté	
13:30-13:45		SaB05.4
Time Based Measurement of the Impedance of the Skin-Electrode Interface for Dry Electrode ECG Recording , pp. 5001-5004.		
Dozio, Roberta	Trinity Coll. Dublin	
Baba, Adeshina	Univ. of Dublin, Trinity Coll.	
Assambo, Cedric	Trinity Coll. Dublin	
Burke, Martin J.	Trinity Coll. Dublin	
13:45-14:00		SaB05.5
The Development of a White Cane Which Navigates the Visually Impaired , pp. 5005-5008.		
Shiizu, Yuriko	Tokai Univ.	
Magatani, Kazushige	Tokai Univ.	

SaB06 Tête d'Or 2
Structural Bioinformatics and Computational Proteomics I (Oral Session)

Chair: Fenstermacher, David	H. Lee Moffitt Cancer Center & Res. Inst.	
Co-Chair: Fotiadis, Dimitrios I.	Univ. of Ioannina	
12:45-13:00		SaB06.1
Predicting Peptide Bond Conformation Using Feature Selection and the Naïve Bayes Approach , pp. 5009-5012.		
Exarchos, Kostas	Univ. of Ioannina	
Exarchos, Themis P.	Unit of Medical Tech. & Intelligent Info	
Papaloukas, Costas	Univ. of Ioannina	
Troganis, Anastassios	Univ. of Ioannina	
Fotiadis, Dimitrios I.	Univ. of Ioannina	

13:00-13:15		SaB06.2
Improvement in Fold Recognition Accuracy of a Reduced-State Space Hidden Markov Model by Using Secondary Structure Information in Scoring , pp. 5013-5016.		
Lampros, Christos	Unit of Medical Tech. and Intelligent Information	
Papaloukas, Costas	Univ. of Ioannina	
Exarchos, Kostas	Univ. of Ioannina	
Fotiadis, Dimitrios I.	Univ. of Ioannina	
13:15-13:30		SaB06.3
Prediction of Specific Protein-DNA Recognition by Knowledge-Based Two-Body and Three-Body Interaction Potentials , pp. 5017-5020.		
Zhao, Guijun		UIC
Carson, Matthew	Univ. of Illinois at Chicago	
Lu, Hui	Univ. of Illinois at Chicago	
13:30-13:45		SaB06.4
Influence of Electromagnetic Radiation on Enzyme Kinetics , pp. 5021-5024.		
Pirogova, Elena		RMIT Univ.
Cosic, Irena		RMIT Univ.
Vojisavljevic, Vuk		RMIT Univ.
13:45-14:00		SaB06.5
Training Set Reduction Methods for Protein Secondary Structure Prediction in Single-Sequence Condition , pp. 5025-5028.		
Aydin, Zafer	Georgia Inst. of Tech.	
Pakatci, Isa Kemal	Sabanci Univ.	
Erdogan, Hakan	Sabanci Univ.	
Altunbasak, Yucel	Georgia Inst. of Tech.	
14:00-14:15		SaB06.6
Perturbation-Based Markovian Transmission Model for Macromolecular Machinery in Cell , pp. 5029-5034.		
Lu, Hsiao-Mei	Univ. of Illinois at Chicago	
Liang, Jie	Univ. of Illinois at Chicago	

SaB07 Bellecour 2

Heart Rate and Blood Pressure Variability I (Oral Session)

Chair: Bianchi, Anna Maria	Pol. di Milano	
Co-Chair: Sornmo, Leif	Lund Univ.	
12:45-13:00		SaB07.1
Local-Scale Analysis of Cardiovascular Signals by Detrended Fluctuations Analysis: Effects of Posture and Exercise , pp. 5035-5038.		
Castiglioni, Paolo	Fondazione Don Carlo Gnocchi ONLUS	
Quintin, Luc	Univ. Lyon	
Civijian, Andrei	Univ. of Lyon 1	
Parati, Gianfranco	Istituto Auxologico Italiano	
Di Rienzo, Marco	Fondazione Don Carlo Gnocchi	
13:00-13:15		SaB07.2
Cardiac Response to Robotic Assisted Locomotion in Normal Subjects: A Preliminary Study , pp. 5039-5042.		
Magagnin, Valentina	Pol. of Milan	
Caiani, Enrico	Pol. of Milan	
Cazzaniga, Alberto	Hospital Valduce 'Villa Beretta'	
Porta, Alberto	Univ. degli Studi di Milano	
Licari, Vittorio	Galeazzi Orthopedic Hospital IRCCS	
Molteni, F	Hospital Valduce 'Villa Beretta'	
Cerutti, Sergio	Pol. Univ. of Milan	
13:15-13:30		SaB07.3
Low-Order Parametric System Identification for Intrapartum Uterine Pressure-Fetal Heart Rate Interaction , pp. 5043-5046.		
Warrick, Philip A.	McGill Univ.	
Kearney, Robert Edward	McGill Univ.	
Precup, Doina	McGill Univ.	
Hamilton, Emily	McGill Univ.	
13:30-13:45		SaB07.4
Comparison of HRV Analysis Methods During Orthostatic Challenge: HRV with Respiration or without? , pp. 5047-5050.		
Aysin, Benhur	ANSAR Medical Tech. Inc.	
Colombo, Joe	ANSAR Medical Tech. Inc.	
Aysin, Elif	ANSAR Inc.	
13:45-14:00		SaB07.5
Heart Rate Chaos As a Mortality Predictor in Mild to Moderate Heart Failure , pp. 5051-5054.		
Arzeno, Natalia	Massachusetts Inst. of Tech.	
Poon, Chi-Sang	Massachusetts Inst. of Tech.	

SaB08 Gratte Ciel Lounge

Brain-Computer Interfaces I (Oral Session)

Chair: Hesse, Christian	F.C. Donders Centre for Cognitive Neuroimaging	
12:45-13:00		SaB08.1
A Comparison of Mental Task Combinations for Asynchronous EEG-Based BCIs , pp. 5055-5058.		
Sepulveda, Francisco	Univ. of Essex	
Dyson, Matthew	Univ. of Essex	
Gan, John Q.	Univ. of Essex, UK	
Tsui, C.S. Louis	Univ. of Essex	

13:00-13:15		SaB08.2
Implementation of a Brain-Computer Interface Based on Three States of Motor Imagery , pp. 5059-5062.		
Wang, Yijun		Tsinghua Univ.
Hong, Bo		Tsinghua Univ.
Gao, Xiaorong		Tsinghua Univ.
Gao, Shangkai		Tsinghua Univ.
13:15-13:30		SaB08.3
Evaluation of an Eye Gaze Point Detection Method Using VEP Elicited by Multi-Pseudorandom Stimulation for Brain Computer Interface , pp. 5063-5066.		
Momose, Keiko		Waseda Univ.
13:30-13:45		SaB08.4
Towards Asynchronous Brain-Computer Interfaces: A P300-Based Approach with Statistical Models , pp. 5067-5070.		
Zhang, Haihong		Inst. for Infocomm Res.
Guan, Cuntai		Inst. for Infocomm Res.
Wang, Chuanchu		Inst. for Infocomm Res.
13:45-14:00		SaB08.5
Subspace Estimation Approach to P300 Detection and Application to Brain-Computer Interface , pp. 5071-5074.		
Rivet, Bertrand		Commissariat à l'Energie Atomique
Souloumiac, Antoine		Commissariat à l'Energie Atomique
14:00-14:15		SaB08.6
A Tree-Structure Mutual Information-Based Feature Extraction and Its Application to EEG-Based Brain-Computer Interfacing , pp. 5075-5078.		
Oveisi, Farid		Iran Univ. of Science and Tech.
Erfanian, Abbas		Iran Univ. of Science and Tech.
<hr/>		
SaB09		Gratte Ciel 3
Orthopaedic and Musculo-Skeletal Biomechanics II (Oral Session)		
Chair: Amirouche, Farid		Univ. of Illinois-Chicago
12:45-13:00		SaB09.1
A Fast Method for Finding Range of Motion in the Human Joints , pp. 5079-5082.		
Arbabi, Ehsan		Ec. Pol. Fédérale de Lausanne (EPFL)
Boulic, Ronan		Ec. Pol. Fédérale de Lausanne (EPFL)
Thalmann, Daniel		Ec. Pol. Fédérale de Lausanne (EPFL)
13:00-13:15		SaB09.2
Soft Tissue Modeling Using Nonlinear Mass Spring and Simplified Medial Representation , pp. 5083-5086.		
Chen, Feng		Shanghai Jiaotong Univ.
Gu, Lixu		Shanghai Jiaotong Univ.
Huang, Pengfei		Shanghai Jiao Tong Univ.
Zhang, Jingsi		Shanghai Jiaotong Univ.
Xu, Jianrong		Renji Hospital, Medical School, Shanghaijiaotong Univ.
13:15-13:30		SaB09.3
Ellipsoid-Constrained Robust Fitting of Quadrics with Application to the 3D Morphological Characterization of Articular Surfaces , pp. 5087-5090.		
Allaire, Stéphane		Princess Margaret Hospital, Univ. Health Network
Jacq, Jean-José		CHU Morvan
Burdin, Valérie		Ec. Nationale Supérieure des Télécommunications
Roux, Christian		ENST Bretagne - INSERM
13:30-13:45		SaB09.4
A Novel Biomedical Meshing Algorithm and Evaluation Based on Revised Delaunay and Space Disassembling , pp. 5091-5094.		
YU, Xiao		Shanghai Jiao Tong Univ.
Gu, Lixu		Shanghai Jiaotong Univ.
Lv, Sizhe		Shanghai Jiao Tong Univ.
Liu, Jie		Shanghai Jiao Tong Univ.
Huang, Pengfei		Shanghai Jiao Tong Univ.
Kong, Xianming		Renji Hospital, Medical School, Shanghai Jiaotong Univ.
13:45-14:00		SaB09.5
Automated Method for Clinic and Morphologic Analysis of Bones Using Implicit Modeling Technique , pp. 5095-5098.		
Gargouri, Imed		Notre-Dame Hospital
14:00-14:15		SaB09.6
Experimental Investigation of Posterior Elbow Dislocation in a Primate Model , pp. 5099-5102.		
Abraham, Edward		Univ. of Illinois at Chicago Coll. of Medicine
Al Kork, Samer		Univ. of Illinois at Chicago
Amirouche, Farid		Univ. of Illinois-Chicago
hande, erin		Univ. of Illinois at Chicago
Rai, Surya		Univ. of Illinois at Chicago
Biafora, Sam		Univ. of Illinois at Chicago Coll. of Medicine

SaB10		Rhône 1
Biomaterials and Cell-Biomaterial Interactions I (Oral Session)		
Chair: Migonney, Veronique		Univ. Paris
12:45-13:00		SaB10.1
<i>The Effect of Pre-Polymeric Solution and Subsequent Encapsulation in Hydrogel Membranes on the Stability and Biological Activity of Horse Myoglobins</i> , pp. 5103-5106.		
Torres-Lugo, Madeline		Univ. of Puerto Rico, Mayaguez Campus
Valentin, Celimar		Univ. of Puerto Rico, Mayaguez Campus
Lopez-Garriga, Juan		Univ. of Puerto Rico, Mayaguez Campus
13:00-13:15		SaB10.2
<i>RGD Nanodomains Grafting Onto Titanium Surface</i> , pp. 5107-5110.		
Forget, Guillaume		INSERM
Latxague, Laurent		INSERM U577
Héroguez, Valérie		CNRS - ENSCPB - Univ. Bordeaux I
Labrugere, Christine		ICMCB-CNRS
Durrieu, Marie-Christine		INSERM U577
13:15-13:30		SaB10.3
<i>Poly(Ethylene Glycol) Hydrogels As Possible Multidrug Resistance Associated Protein (MRP) Inhibitors</i> , pp. 5111-5114.		
Santos-Roman, Nilmarie		Univ. of Puerto Rico, Mayaguez Campus
Mendez, Jannet		Univ. of Puerto Rico, Mayaguez Campus
Torres-Lugo, Madeline		Univ. of Puerto Rico, Mayaguez Campus
13:30-13:45		SaB10.4
<i>Morphology and Adhesion of Human Fibroblast Cells Cultured on Bioactive Polymer Grafted Ligament Prosthesis</i> , pp. 5115-5118.		
ZHOU, Jie		Univ. Paris 13
Migonney, Veronique		Univ. Paris
13:45-14:00		SaB10.5
<i>Grafting Bioactive Polymers Onto Titanium Surfaces and Human Osteoblasts Response</i> , pp. 5119-5122.		
mayingi, josselin		Inst. Galilee, Univ. Paris 13
Migonney, Veronique		Univ. Paris
14:00-14:15		SaB10.6
<i>Impact of RGD Peptide Density Grafted Onto Poly(ethylene Terephthalate) on MC3T3 Cell Attachment</i> , pp. 5123-5126.		
Chollet, Celine		INSERM
Labrugere, Christine		ICMCB-CNRS
Durrieu, Marie-Christine		INSERM U577
SaB11		Tête d'Or 1
Decision Support Systems II (Oral Session)		
Chair: Taktak, Azzam Fouad George		Royal Liverpool Univ. Hospital
Co-Chair: Senhadji, Lotfi		Univ. of Rennes 1; INSERM
12:45-13:00		SaB11.1
<i>Characterization of EEGs in Alzheimer's Disease Using Information Theoretic Methods</i> , pp. 5127-5131.		
Zhao, Peng		Univ. of Plymouth
Van-Eevelt, Peter		Univ. of Plymouth
Goh, Cindy		Univ. of Plymouth
Hudson, Nigel		Derriford Hospital
Wimalaratna, Sunil		Radcliffe Infirmary
Ifeachor, Emmanuel		Univ. of Plymouth
13:00-13:15		SaB11.2
<i>Schemes for Fusion of EEG and ECG towards Temporal Lobe Epilepsy Diagnostics</i> , pp. 5132-5135.		
Bermudez, Thomas		Aston Univ.
Lowe, David		Aston Univ.
Arlaud-Lamborelle, Anne-Marie		Hôpital Général Henri Duffaut
13:15-13:30		SaB11.3
<i>Comparison of Three Methods for Classifying Burst and Suppression in the EEG of Post Asphyctic Newborns</i> , pp. 5136-5139.		
Löfhede, Johan		Univ. Coll. of Borås
Löfgren, Nils		Univ. Coll. of Borås
Thordstein, Magnus		Unit of Clinical Neurophysiology, Sahlgrenska Univ. Hospita
Flisberg, Anders		Goteborg Univ.
Kjellmer, Ingemar		Goteborg Univ.
Lindecrantz, Kaj		Univ. Coll. of Borås
13:30-13:45		SaB11.4
<i>Multi-Class Classification of Cancer Stages from Free-Text Histology Reports Using Support Vector Machines</i> , pp. 5140-5143.		
Nguyen, Anthony		CSIRO, ICT Centre
Moore, Darren		CSIRO, ICT Centre
McCowan, Iain		CSIRO, ICT Centre
Fry, Mary-Jane		Queensland Health
13:45-14:00		SaB11.5
<i>Combining Evidence in Hybrid Medical Decision Support Models</i> , pp. 5144-5147.		
Cohen, Maurice		Univ. of California San Francisco
Hudson, Donna L		Univ. of California, San Francisco

14:00-14:15 SaB11.6
An Algebraic Approach to Detect Logical Inconsistences Is Medical Appropriateness Criteria, pp. 5148-5151.
 García-Remesal, Miguel School of Computer Science. Univ. Pol. de
 Maojo, Víctor School of Computer Science. Univ. Pol. de Madrid
 Laita, Luis School of Computer Science. Univ. Pol. de Madrid
 Roanes-Lozano, Eugenio Univ. Complutense de Madrid
 Crespo, José School of Computer Science. Univ. Pol. de Madrid

SaB12 Rhône 2
Working in Bioengineering: Making an Impact (Minisymposium)

Chair: Linte, Cristian A. Robarts Res. Inst. - Univ. of Western Ontario
 Co-Chair: Lazareck, Lisa Joanna Univ. of Oxford
 Organizer: Lazareck, Lisa Joanna Univ. of Oxford
 12:45-13:00 SaB12.1
Working in Bioengineering: Making an Impact (I), pp. 5152-5154.
 Linte, Cristian A. Robarts Res. Inst. - Univ. of Western Ontario
 Lazareck, Lisa Joanna Univ. of Oxford

SaB13 Roseraie 1,2
From Idea to Product - Innovation Approaches and Healthcare Market Characteristics (Invited Session)

Chair: Such, Olaf Philips
 Co-Chair: Galloway, Robert Vanderbilt
 Organizer: Such, Olaf Philips
 12:45-13:00 SaB13.1
From Idea to Product - Why so Many Innovations in Healthcare Wilt on the Way to Commercialization (I), pp. 5155-5155.
 Such, Olaf Philips
 13:00-13:15 SaB13.2
Price Trend Analysis and Its Implications for the Development of New Medical Technologies, pp. 5156-5159.
 Brown, Alan Univ. of Ulster
 Meenan, Brian Univ. of Ulster
 Young, Terry Brunel Univ.
 13:15-13:30 SaB13.3
Innovative Healthcare Systems on Their Way to the Market: How to Cope with Commercialization Barriers, pp. 5160-5161.
 HOFMANN, ISA IHOFMANN
 13:30-13:45 SaB13.4
Found in Translation; from the Laboratory to the Operating Room to the Market (I), pp. 5162-5165.
 Galloway, Robert Vanderbilt

SaC01 Gratte Ciel 1
Signal Pattern Classification in Biomedical Signals IV (Oral Session)

Chair: Celler, Branko George Univ. of New South Wales
 Co-Chair: Al-Jumaily, Adel Univ. of Tech. Sydney
 14:30-14:45 SaC01.1
Body Sensor Network Based ECG Segmentation and Analysis, pp. 5166-5169.
 Li, Huaming Michigan Tech. Univ.
 Tan, Jindong Michigan Tech. Univ.
 14:45-15:00 SaC01.2
Some Practical Remarks on Neural Networks Approach to Fetal Cardiotocograms Classification, pp. 5170-5173.
 Jezewski, Michal The Silesian Univ. of Tech.
 Wrobel, Janusz Inst. of Medical Tech. and Equipment
 Labaj, Pawel The Silesian Univ. of Tech.
 Leski, Jacek Silesian Univ. of Tech.
 Henzel, Norbert Silesian Univ. of Tech.
 Horoba, Krzysztof Inst. of Medical Tech. and Equipment
 Jezewski, Janusz Inst. of Medical Tech. and Equipment
 15:00-15:15 SaC01.3
Applying Neural Network Classifiers in the Diagnosis of the Obstructive Sleep Apnea Syndrome from Nocturnal Pulse Oximetric Recordings, pp. 5174-5177.
 Marcos, J. Victor Univ. de Valladolid
 Hornero, Roberto Univ. of Valladolid
 Álvarez, Daniel Univ. of Valladolid
 del Campo, Félix Hospital del Río Hortega
 López, Miguel Univ. of Valladolid
 15:15-15:30 SaC01.4
Classification Algorithms for SIFT-MS Medical Diagnosis, pp. 5178-5181.
 Moorhead, Katherine Tracey Univ. of Canterbury
 Lee, Dominic Univ. of Canterbury
 Chase, J. Geoffrey Univ. of Canterbury
 Moot, Andrew R. Univ. of Otago
 Ledingham, Katy M. Syft Tech. Ltd
 Scotter, Jennifer Syft Tech. Ltd
 Allardyce, Randall A. Univ. of Otago
 Senthilmohan, Senti T. Syft Tech. Ltd
 Endre, Zoltan Univ. of Otago, Christchurch

15:30-15:45		SaC01.5
Channel and Feature Selection in Multifunction Myoelectric Control , pp. 5182-5185.		
Al-Jumaily, Adel		Univ. of Tech. Sydney
Khushaba, Rami N.		Univ. of Tech. Sydney
15:45-16:00		SaC01.6
Characterization of Breast Tumors with NIR Methods Using Optical Indices , pp. 5186-5189.		
Alacam, Burak		Rensselaer Pol. Inst.
Yazici, Birsen		RPI
Chance, Britton		UPENN
Nioka, Shoko		UPENN
SaC02		Gratte Ciel 2
Multivariate and Multimodal Biomedical Signal Processing I (Oral Session)		
Chair: Principe, Jose		Univ. of Florida
Co-Chair: Malmivuo, Jaakko		Tampere Univ. of Tech.
14:30-14:45		SaC02.1
BioS: A New Tool for Biopotential Experiments , pp. 5190-5193.		
Bucolo, Maide		Univ. degli Studi di Catania
Di Grazia, Federica		Univ. of Catania
Fortuna, Luigi		Univ. of Catania
Frasca, Mattia		Univ. of Catania
Sapuppo, Francesca		Univ. degli Studi di Catania
14:45-15:00		SaC02.2
Improved Detection of Deep Sources with Weighted Multielectrode EEG Leads , pp. 5194-5197.		
Väisänen, Outi		Tampere Univ. of Tech.
Malmivuo, Jaakko		Tampere Univ. of Tech.
15:00-15:15		SaC02.3
Features Extraction from Time-Varying Cortical Networks Adopting a Theoretical Graph Approach , pp. 5198-5201.		
De Vico Fallani, Fabrizio		Univ. La Sapienza
Astolfi, Laura		Univ. of Rome
Cincotti, Febo		Fondazione Santa Lucia IRCCS
Mattia, Donatella		Fondazione Santa Lucia IRCCS
Tocci, Andrea		Fondazione S.Lucia IRCCS
Capitanio, Samantha		Fondazione S.Lucia IRCCS
Marciani, Maria Grazia		Tor Vergata Univ.
Salinari, Serenella		La Sapienza Univ.
Witte, Herbert		Friedrich Schiller Univ.
Gao, Shangkai		Tsinghua Univ.
Colosimo, Alfredo		Univ. of Rome "Sapienza"
Babiloni, Fabio		Univ. of Rome
15:15-15:30		SaC02.4
Long-Term Subjective and Objective Sleep Analysis of Total Sleep Time and Sleep Quality in Real Life Settings , pp. 5202-5205.		
Merilahti, Juho Markus		VTT
Saarinén, Ari		Rokua Rehabilitation Centre
Pärkkä, Juha		VTT
Korhonen, Ilkka		VTT
Antila, Kari		VTT
Mattila, Elina		VTT
15:30-15:45		SaC02.5
Robust Single-Trial ERP Estimation Based on Spatiotemporal Filtering , pp. 5206-5209.		
Li, Ruijiang		Univ. of Florida
Principe, Jose		Univ. of Florida
Bradley, Margaret		Univ. of Florida
Ferrari, Vera		Univ. of Florida
15:45-16:00		SaC02.6
Detection of Synchronized Firings in Multivariate Neural Spike Trains During Motor Tasks , pp. 5210-5213.		
Bourien, Jerome		UFR Pharmacie - Univ. Montpellier1
Sanchez, Justin C.		Univ. of Florida
Bellanger, Jean-Jacques		LTSI-INSERM U642
WENDLING, Fabrice		INSERM - Univ. de Rennes 1
Principe, Jose		Univ. of Florida
16:00-16:15		SaC02.7
Development of the Hand Motion Recognition System Based on Surface EMG Using Suitable Measurement Channels for Pattern Recognition , pp. 5214-5217.		
Nagata, Kentaro		Kanagawa Rehabilitation Inst.
Ando, Keiichi		TOKAI Univ.
Magatani, Kazushige		TOKAI Univ.
Yamada, Masafumi		Kanagawa Rehabilitation Center

SaC03		Bellecour 1
Neuroimaging (fMRI) (Oral Session)		
Chair: Baillet, Sylvain		CNRS UPR640--LENA
Co-Chair: He, Bin		Univ. of Minnesota
14:30-14:45		SaC03.1
Application and Validation of Spatial Mixture Modelling for the Joint Detection-Estimation of Brain Activity in Fmri , pp. 5218-5222.		
VINCENT, Thomas		CEA
CIUCIU, Philippe		CEA
IDIER, Jérôme		CNRS
14:45-15:00		SaC03.2
The Haemodynamic Response to the Interictal Epileptic Spikes , pp. 5223-5226.		
Tana, Maria Gabriella		Pol. Univ. of Milan
Bianchi, Anna Maria		Pol. di Milano
Vitali, Paolo		National Neurological Inst. "C.Besta"
Villani, Flavio		National Neurological Inst. "C.Besta"
Cerutti, Sergio		Pol. Univ. of Milan
15:00-15:15		SaC03.3
Localization of Brain Activity by Temporal Anti-Correlation with the Posterior Cingulate Cortex , pp. 5227-5230.		
Wang, Shijie		Southeast Univ.
Zhang, Zhiqiang		The General Hospital of Nanjing Military District
Lu, Guangming		The General Hospital of Nanjing Military District
Luo, Limin		Univ. of Southeast
15:15-15:30		SaC03.4
Directly Measuring Local Region Functional Connectivity with Multivariate Correlation Technique , pp. 5231-5234.		
zhang, hui		Chinese Acad. of Science
Tian, Jie		Inst. of Automation, Chinese Acad. of Sciences
zhen, zonglei		Chinese Acad. of Science
15:30-15:45		SaC03.5
Spectral Clustering of Fmri Data within Regions of Interest: Clarification of L-Dopa Effects in Parkinson's Disease , pp. 5235-5238.		
Lee, Pamela Wen-Hsin		Univ. of British Columbia
Wang, Z. Jane		Univ. of British Columbia
Palmer, Samantha Jane		Univ. of British Columbia
McKeown, Martin		Univ. of British Columbia
15:45-16:00		SaC03.6
Implementation of Low Resolution Electro-Magnetic Tomography with Fmri Statistical Maps on Realistic Head Models , pp. 5239-5242.		
Duru, Adil Deniz		Bogazici Univ.
Demiralp, Tamer		0;stanbul Medical School
Ademoglu, Ahmet		Bogazici Univ.
eryilmaz, hamdi		boun

SaC04		Bellecour 3
3D Organ Segmentation and Modeling (Oral Session)		
14:30-14:45		SaC04.1
Fully Automatic Liver Segmentation through Graph-Cut Technique , pp. 5243-5246.		
Massoptier, Laurent		Inst. of Clinical Physiology of National Res. Council
Casciaro, Sergio		Inst. of Clinical Physiology of National Res. Council
14:45-15:00		SaC04.2
Graph Cut Liver Segmentation for Interstitial Ultrasound Therapy , pp. 5247-5250.		
ESNEAULT, Simon		INSERM U642, Rennes, F-35000, France; Univ. de Rennes 1, LT
Hraiech, Najah		Univ. de Rennes 1; ANSYS France, Lyon
Delabrousse, Eric		INSERM U556, Lyon, F-69003, France;
Dillenseger, Jean-Louis		Univ. de Rennes 1
15:00-15:15		SaC04.3
Joint Segmentation-Registration of Organs Using Geometric Models , pp. 5251-5254.		
Ayvaci, Alper		Rensselaer Pol. Inst.
Freedman, Daniel		Rensselaer Pol. Inst.
15:15-15:30		SaC04.4
Statistical Shape Model-Based Segmentation of Brain Mri Images , pp. 5255-5258.		
Bailleul, Jonathan		GREYC CNRS UMR 6072 Univ. de Caen
RUAN, Su		IUT de Troyes, Univ. de Reims
CONSTANS, Jean-Marc		EA3916, CHRU de Caen
15:30-15:45		SaC04.5
3D Automatic Segmentation and Reconstruction of Prostate on MR Images , pp. 5259-5262.		
Betrouni, Nacim		Inst. de Tech. Médicale
PUECH, Philippe		CHRU de Lille
DEWALLE, ANNE-SOPHIE		Univ. des Sciences et Tech. de Lille
Lopes, Renaud		Inserm, U703 and Univ. of Lille1
DUBOIS, Patrick		Inserm
Vermandel, Maximilien		Univ. de Lille

15:45-16:00 SaC04.6
3D Segmentation with an Application of Level Set-Method Using MRI Volumes for Image Guided Surgery, pp. 5263-5266.
 BOSNJAK, Antonio Univ. de Carabobo.
 Montilla, Guillermo Univ. de Carabobo
 Villegas, Ricardo Univ. de Carabobo.
 Jara, Iván Hospital Metropolitano del Norte.

SaC05 Tête d'Or Lounge

Wearable and Portable Communicative Systems II (Oral Session)

Co-Chair: Rodriguez-Villegas, Esther Imperial Coll. London

14:30-14:45 SaC05.1

Development of a Wearable Electro-Larynx for Laryngectomees and Its Evaluation, pp. 5267-5270.
 Hashiba, Mitsuo The Univ. of Tokyo
 Sugai, Yasunori Densei Inc.
 Izumi, Takashi Hokkaido Tokai Univ.
 Ino, Shuichi The Univ. of Tokyo
 Ifukube, Tohru The Univ. of Tokyo

14:45-15:00 SaC05.2

Context-Aware Sensing of Physiological Signals, pp. 5271-5275.
 Wu, Winston Univ. of California, Los Angeles
 Batalin, Maxim Univ. of California, Los Angeles
 Au, Lawrence Univ. of California, Los Angeles
 Bui, Alex Univ. of California, Los Angeles
 Kaiser, William Univ. of California, Los Angeles

15:00-15:15 SaC05.3

A Wearable Physiological Sensor Suite for Unobtrusive Monitoring of Physiological and Cognitive State, pp. 5276-5281.
 Matthews, Robert Quantum Applied Science & Res. Inc.
 McDonald, Neil Quantum Applied Science & Res. Inc.
 Hervieux, Paul Quantum Applied Science & Res. Inc.
 Turner, Peter Quantum Applied Science & Res. Inc.
 Steindorf, Marty Quantum Applied Science & Res. Inc.

15:15-15:30 SaC05.4

A Low-Voltage Low-Power Front-End for Wearable EEG Systems, pp. 5282-5285.
 Yates, David Imperial Coll. London
 Lopez-Morillo, Enrique Univ. of Sevilla
 Carvajal, Ramon G. Univ. of Sevilla
 Ramirez-Angulo, Jaime New Mexico State Univ.
 Rodriguez-Villegas, Esther Imperial Coll. London

15:30-15:45 SaC05.5

How to Pass Information and Deliver Energy to a Network of Implantable Devices within the Human Body, pp. 5286-5289.
 Sun, Mingui Univ. of Pittsburgh
 Hackworth, Steven A. Univ. of Pittsburgh
 Tang, Zhide Chongqing Univ.
 Sciabassi, Robert Univ. of Pittsburgh

15:45-16:00 SaC05.6

A Preliminary Study for Portable Walking Distance Measurement System Using Ultrasonic Sensors, pp. 5290-5293.
 Jang, Yongwon Electronics and Telecommunications Res. Inst.
 Shin, Seungchul ETRI
 Lee, Jeong Won Electronics & Telecom Res. Inst.
 Kim, Seunghwan Electronics & Telecom Res. Inst.

SaC06 Tête d'Or 2

Novel Technologies for Bioinformatics I (Oral Session)

Chair: Fang, Qiang RMIT Univ.

14:30-14:45 SaC06.1

A Simulation for Effects of RF Electromagnetic Radiation from a Mobile Handset on Eyes Model Using the Finite-Difference Time-Domain Method, pp. 5294-5297.
 Yang, Li Hebei Univ. of Tech.
 Ge, Manling Hebei Univ. of Tech.
 Guo, Jia Hebei Univ. of Tech.
 Wang, Qingmeng Hebei Univ. of Tech.
 Jiang, Xiaochi Hebei Univ. of Tech.
 Yan, Weili Hebei Univ. of Tech.

14:45-15:00 SaC06.2

Synchronization Software for Automation in Anesthesia, pp. 5298-5301.
 Bressan, Nadja Faculdade de Ciencias da Univ. do Porto
 Castro, Ana Faculdade de Ciências da Univ. do Porto
 Brás, Susana Faculdade de Ciências da Univ. do Porto
 Oliveira, Hélder P. Faculdade de Engenharia da Univ. do Porto
 Ribeiro, Lénio Hospital Veterinário do Porto
 Ferreira, David A Univ. de Trás-os-Montes e Alto Douro
 Antunes, Luis Univ. de Trás-os-Montes e Alto Douro
 Amorim, Pedro Hospital Geral de Santo António
 Nunes, Catarina S Faculdade de Ciencias da Univ. do Porto

15:00-15:15		SaC06.3
Detecting Positively Selected Sites from Amino Acid Sequences: An Implicit Codon Model , pp. 5302-5306.		
Ouyang, Zheng		Univ. of Illinois at Chicago
Liang, Jie		Univ. of Illinois at Chicago
15:15-15:30		SaC06.4
Parameter Identifiability of Cardiac Ionic Models Using a Novel CellML Least Squares Optimization Tool , pp. 5307-5310.		
Hui, Ben Bunny Chun Bun		Univ. of New South Wales
Dokos, Socrates		Univ. of New South Wales
Lovell, Nigel H		Univ. of New South Wales
15:30-15:45		SaC06.5
Cell-Graph Mining for Breast Tissue Modeling and Classification , pp. 5311-5314.		
Bilgin, Cemal Cagatay		Rensselaer Pol. Inst.
Demir, Cigdem Gunduz		Bilkent Univ.
Nagi, Chandandeep		Mount Sinai Medical Center
Yener, Bulent		Rensselaer Pol. Inst.
15:45-16:00		SaC06.6
Defining Muscle Elastance As a Parameter , pp. 5315-5318.		
Palladino, Joseph		Trinity Coll.
Noordergraaf, Abraham		Univ. of Pennsylvania

SaC07	Bellecour 2
Heart Rate and Blood Pressure Variability II (Oral Session)	

Chair: Meste, Olivier		UNSA-CNRS
Co-Chair: Wiklund, Urban		Univ. hospital
14:30-14:45		SaC07.1
Statistical Analysis of QT/RR Hysteresis in Healthy Horses , pp. 5319-5322.		
Kozelek, Petr		Czech Tech. Univ. in Prague
14:45-15:00		SaC07.2
Assessment of Slow-Breathing Relaxation Technique in Acute Stressful Tasks Using a Multipurpose Non-Invasive Beat-By-Beat Cardiovascular Monitoring System , pp. 5323-5325.		
Nogawa, Masamichi		Kanazawa Univ.
Yamakoshi, Takehiro		Kanazawa Univ.
Ikarashi, Akira		Ishikawa Sunrise Industries Creation
Tanaka, Shinobu		Kanazawa Univ.
Yamakoshi, Ken-ichi		Kanazawa Univ.
15:00-15:15		SaC07.3
Arterial Blood Pressure Analysis Based on Scattering Transform I , pp. 5326-5329.		
Laleg, Taous-Meriem		INRIA Rocquencourt,
Crépeau, Emmanuelle		INRIA Rocquencourt
PAPELIER, Yves		Paris-Sud Univ.
Sorine, Michel		INRIA
15:15-15:30		SaC07.4
Arterial Blood Pressure Analysis Based on Scattering Transform II , pp. 5330-5333.		
Laleg, Taous-Meriem		INRIA Rocquencourt,
Medigue, Claire		INRIA
Cottin, François		Univ. of Evry
Sorine, Michel		INRIA
15:30-15:45		SaC07.5
Electrical Acupuncture Modifies Autonomic Balance by Resetting the Neural Arc of Arterial Baroreflex System , pp. 5334-5337.		
Sugimachi, Masaru		Natl Cardio Center Res. Inst.
Kawada, Toru		Nat. Cardiovascular Center Res. Inst.
Kamiya, Atsunori		National Cardiovascular Center Res. Inst.
Li, Meihua		Nat. Cardiovascular Center Res. Inst.
Zheng, Can		National Cardio. Center Res. Inst.
Sunagawa, Kenji		Kyushu Univ.

SaC08	Gratte Ciel Lounge
Brain-Computer Interfaces II (Oral Session)	

Chair: Hesse, Christian		F.C. Donders Centre for Cognitive Neuroimaging
14:30-14:45		SaC08.1
Development of an Optical Brain-Machine Interface , pp. 5338-5341.		
Utsugi, Kei		Hitachi Ltd.
Obata, Akiko		Hitachi Ltd.
Sato, Hiroki		Hitachi Ltd.
Katura, Takusige		Hitachi Ltd.
Sagara, Kazuhiko		Hitachi Ltd.
Maki., Atsushi		Hitachi Ltd.
Koizumi, Hideaki		Hitachi Ltd.
14:45-15:00		SaC08.2
Application to Robot Control Using Brain Function Measurement by Near-Infrared Spectroscopy , pp. 5342-5345.		
Tsubone, Tadashi		Nagaoka Univ. of Tech.
Muroga, Takeo		Nagaoka Univ. of Tech.
Wada, Yasuhiro		Nagaoka Univ. of Tech.

15:00-15:15		SaC08.3
Decoding Performance for Hand Movements: EEG vs. MEG , pp. 5346-5348.		
Waldert, Stephan		Univ. of Tübingen
Braun, Christoph		Univ. of Tübingen
Preissl, Hubert		Univ. of Tübingen
Birbaumer, Niels		Eberhard-Karls-Univ.
Aertsen, Ad		Albert-Ludwigs-Univ.
Mehring, Carsten		Albert-Ludwigs-Univ.
15:15-15:30		SaC08.4
Including Planning Activity in Feature Space Distributes Activation Over a Broader Neuron Population , pp. 5349-5352.		
Singhal, Girish		Johns Hopkins Univ.
Acharya, Soumyadipta		Johns Hopkins Univ.
Davidovics, Natan		Johns Hopkins Univ.
He, Jiping		Arizona State Univ.
Thakor, Nitish		Johns Hopkins Univ.
15:30-15:45		SaC08.5
A Cortical Recording Platform Utilizing Uecog Electrode Arrays , pp. 5353-5357.		
Kim, Jiwan		Univ. of Wisconsin-Madison
Wilson, J. Adam		Univ. of Wisconsin-Madison
Williams, Justin		Univ. of Wisconsin
15:45-16:00		SaC08.6
Impact of Lossy Compression on Neural Response Characteristics Extracted from High-Density Intra-Cortical Implant Data , pp. 5358-5361.		
Shettliffe, Michael		Michigan State Univ.
Kamboh, Awais Mehmood		Michigan State Univ.
Mason, Andrew		Michigan State Univ.
Oweiss, Karim		Michigan State Univ.
SaC09		Gratte Ciel 3
Peripheral Neuromuscular Control (Oral Session)		
Chair: Kearney, Robert Edward		McGill Univ.
Co-Chair: Galiana, Henrietta L.		McGill Univ.
14:30-14:45		SaC09.1
A Painless and Constraint-Free Method to Estimate Viscoelastic Passive Dynamics of Limbs' Joints to Support Diagnosis of Neuromuscular Diseases , pp. 5362-5365.		
Venture, Gentiane		Univ. of Tokyo
Nakamura, Yoshihiko		Univ. of Tokyo
Katsu, Yamane		Univ. of Tokyo
hirashima, masaya		Univ. of Tokyo
14:45-15:00		SaC09.2
Stability Analysis of the Lambda-Model During Fast Elbow Movements , pp. 5366-5369.		
Lan, Li		Nanyang Tech. Univ.
Kuanyi, Zhu		Nanyang Tech. Univ.
15:00-15:15		SaC09.3
Recovery of Arm Movement after Stroke , pp. 5370-5372.		
Mirbagheri, Mehdi		Northwestern Univ.
Tsao, Chengchi		Northwestern Univ.
Rymer, William Zev		Northwestern & Rehab Inst. of Chicago
15:15-15:30		SaC09.4
Electromyographic Hyperactivation of Skeletal Muscles by Time-Modulated Mechanical Stimulation , pp. 5373-5376.		
Mischi, Massimo		Eindhoven Univ. of Tech.
Kaashoek, Irene		TU Eindhoven
15:30-15:45		SaC09.5
Modulation of Vergence During the Vestibulo-Ocular Reflex , pp. 5377-5380.		
Khojasteh, Elham		McGill Univ.
Galiana, Henrietta L.		McGill Univ.
SaC10		Rhône 1
Molecular and Cellular Biomechanics I (Oral Session)		
Chair: Simpson, Michael		Oak Ridge National Lab.
14:30-14:45		SaC10.1
Vertically Aligned Carbon Nanofiber Arrays: An Electrical and Genetic Substrate for Tissue Scaffolding , pp. 5381-5383.		
McKnight, Timothy		Oak Ridge National Lab.
Ericson, Nance		Oak Ridge National Lab.
Jones, Steven		Oak Ridge Inst. of Science and Engineering
Melechko, Anatoli		Oak Ridge National Lab.
Simpson, Michael		Oak Ridge National Lab.
14:45-15:00		SaC10.2
Effects of Prestin on Membrane Mechanics and Electromechanics , pp. 5384-5386.		
Anvari, Bahman		Univ. of California, Riverside
Zhang, Rui		Rice Univ.
Qian, Feng		Rice Univ.
Rajagopalan, Lavanya		Baylor Coll. of Medicine
Pereira, Fred A.		Baylor Coll. of Medicine
Brownell, William		Baylor Coll. of Medicine

15:00-15:15		SaC10.3
Investigating the Effects of Fluid Shear Forces on Cellular Responses to Profiled Surfaces In-Vitro: A Computational and Experimental Investigation , pp. 5387-5390.		
Brown, Alan		Univ. of Ulster
Meenan, Brian		Univ. of Ulster
15:15-15:30		SaC10.4
Influences of Adhesion Area and Biological Sample Size on the Estimation of Young's Modulus and Poisson's Ratio Assessed by Micropipette Aspiration Technique , pp. 5391-5394.		
Boudou, Thomas		TIMC IMAG
Ohayon, Jacques		TIMC IMAG
Picart, Catherine		Univ. Montpellier 2
Tracqui, Philippe		TIMC IMAG
15:30-15:45		SaC10.5
Poloxamer 188 Reduces Axonal Beading Following Mechanical Trauma to Cultured Neurons , pp. 5395-5398.		
Kilinc, Devrim		Drexel Univ.
Gallo, Gianluca		Drexel Univ. Coll. of Medicine
Barbee, Kenneth A.		Drexel Univ.
15:45-16:00		SaC10.6
Engineering of a Straighter Septum: Numerical Model of Mechanical Stress Relaxation in Laser-Heated Septal Cartilage , pp. 5399-5402.		
Protsenko, Dmitriy		Univ. of California, Irvine
Wong, Brian		Univ. of California, Irvine

SaC11 Tête d'Or 1

Decision Support Systems III (Oral Session)

Chair: Taktak, Azzam Fouad George		Royal Liverpool Univ. Hospital
14:30-14:45		SaC11.1
Preoperative Prediction of Malignancy of Ovarian Tumours Using Modified Sequential Non-Uniform Procedure , pp. 5403-5406.		
Stalbovskaya, Viktoriya		Univ. of Plymouth
Ifeakor, Emmanuel		Univ. of Plymouth
Van Huffel, Sabine		Katholieke Univ. Leuven
Timmerman, Dirk		K.U.Leuven
14:45-15:00		SaC11.2
Quantification and Classification of High-Resolution Magic Angle Spinning Data for Brain Tumor Diagnosis , pp. 5407-5410.		
Pouillet, Jean-Baptiste		Katholieke Univ. Leuven
Martinez-Bisbal, M Carmen		Univ. de Valencia
Valverde, Dani		Univ. Aut'onoma de Barcelona
Monleon, Daniel		Hospital Clinico Univ. de Valencia
Celda, Bernardo		Univ. de Valencia
Arus, Carles		Univ. Autonoma de Barcelona
Van Huffel, Sabine		Katholieke Univ. Leuven
15:00-15:15		SaC11.3
Integration of Clinical and Microarray Data with Kernel Methods , pp. 5411-5415.		
Daemen, Anneleen		Katholieke Univ. Leuven
Gevaert, Olivier		Katholieke Univ. Leuven
De Moor, Bart		Katholieke Univ. Leuven
15:15-15:30		SaC11.4
Development of a Rule Based Prognostic Tool for HER 2 Positive Breast Cancer Patients , pp. 5416-5419.		
Lisboa, Paulo		Liverpool John Moores Univ.
Aung, Min		Liverpool John Moores Univ.
Jarman, Ian		Liverpool John Moores Univ.
Etchells, Terence		Liverpool John Moores Univ.
bourdes, valerie		ICTA Group
Bonnevay, Stephane		Univ. Lyon 1
chabaud, sylvie		Centre Léon-Bérard
Bachelot, Thomas		Centre Léon-Bérard
Perol, David		Centre Léon-Bérard
Negrier, Sylvie		Centre Léon-Bérard
15:30-15:45		SaC11.5
Continuous and Discrete Time Survival Analysis: Neural Network Approaches , pp. 5420-5423.		
Eleuteri, Antonio		Royal Liverpool Univ. Hospital
Aung, Min		Liverpool John Moores Univ.
Taktak, Azzam Fouad George		Royal Liverpool Univ. Hospital
Damato, Bertil		Royal Liverpool Univ. Hospital
Lisboa, Paulo		Liverpool John Moores Univ.
15:45-16:00		SaC11.6
Breast Cancer Predictions by Neural Networks Analysis: A Comparison with Logistic Regression , pp. 5424-5427.		
bourdes, valerie		ICTA Group
Bonnevay, Stephane		Univ. Lyon 1
Lisboa, Paulo		Liverpool John Moores Univ.
Aung, Min		Liverpool John Moores Univ.
chabaud, sylvie		Centre Léon-Bérard
Bachelot, Thomas		Centre Léon-Bérard
Perol, David		Centre Léon-Bérard
Negrier, Sylvie		Centre Léon-Bérard

SaC12	Rhône 2
Advances in Neural Engineering (Minisymposium)	
Chair: Akay, Metin	Arizona State Univ.
Co-Chair: Durand, Dominique	Case Western Res. Univ.
Organizer: Akay, Metin	Arizona State Univ.
Organizer: Durand, Dominique	Case Western Res. Univ.
14:30-14:45	SaC12.1
Recovery of Peripheral Nerve Signals through Blind Separation (I) , pp. 5428-5428.	
Durand, Dominique	Case Western Res. Univ.
14:45-15:00	SaC12.2
Complexity Measures of the Central Respiratory Networks During Wakefulness and Sleep in Piglets (I) , pp. 5429-5430.	
Dragomir, Andrei	Arizona State Univ.
Akay, Metin	Arizona State Univ.
15:00-15:15	SaC12.3
Innovating Signal Processing for Spike Train Data (I) , pp. 5431-5431.	
Paiva, António R. C.	Univ. of Florida
Park, Il	Univ. of Florida
Principe, Jose	Univ. of Florida
SaC13	Roseraie 1,2
From Idea to Product – Commercialization Issues Illustrated in an Example (Workshop) (Minisymposium)	
Chair: Birkett, Liam	Intellectual Property and Business Development Consultant
Organizer: Such, Olaf	Phillips
14:30-14:45	SaC13.1
From Idea to Product – Commercialization Issues Illustrated in an Example (I) , pp. 5432-5432.	
Birkett, Liam	Intellectual Property and Business Development Consultant
SaP2A1	Forum 5&6
PCA and ICA in Biomedical Signals IV (Poster Session)	
16:30-17:30	SaP2A1.1
On the Independent Component Analysis of Evoked Potentials through Single or Few Recording Channels , pp. 5433-5436.	
Wang, Suogang	Univ. of Southampton
James, Christopher	Univ. of Southampton
16:30-17:30	SaP2A1.2
Magnetoencephalogram Blind Source Separation and Component Selection Procedure to Improve the Diagnosis of Alzheimer's Disease Patients , pp. 5437-5440.	
Escudero, Javier	Univ. of Valladolid
Hornero, Roberto	Univ. of Valladolid
Abásolo, Daniel	Univ. of Valladolid
Fernandez, Alberto	Univ. Complutense de Madrid
Poza, Jesús	Univ. de Valladolid
16:30-17:30	SaP2A1.3
Greedy Kernel PCA Applied to Single-Channel EEG Recordings , pp. 5441-5444.	
Tome, Ana Maria	Univ. de Aveiro
Teixeira, Ana Rita	Univ. de Aveiro
Lang, Elmar W.	Univ. of Regensburg
Martins da Silva, Antonio	Hospital Santo Antonio and ICBAS/IBMC-Univ. of Porto
16:30-17:30	SaP2A1.4
EEG Ocular Artefacts and Noise Removal , pp. 5445-5448.	
Romo-Vazquez, Rebeca	Nancy-Univ.
Ranta, Radu	Nancy-Univ.
Louis-Dorr, Valerie	Nancy-Univ.
Maquin, Didier	Nancy-Univ.
16:30-17:30	SaP2A1.5
Extraction of Steady State Visually Evoked Potential Signal and Estimation of Distribution Map from EEG Data , pp. 5449-5452.	
Washizawa, Yoshikazu	RIKEN
Yamashita, Yukihiko	Tokyo Inst. of Tech.
Tanaka, Toshihisa	Tokyo Univ. of Agriculture and Tech.
Cichocki, Andrzej	BSI RIKEN
16:30-17:30	SaP2A1.6
Impact Analysis of Body Movement in Ambulatory ECG , pp. 5453-5456.	
Pawar, Tanmay	Indian Inst. of Tech. - Bombay
N.S., Anantakrishnan	Indian Inst. of Tech. Bombay
Chaudhuri, Subhasis	Indian Inst. of Tech. - Bombay
Duttagupta, Siddhartha	Indian Inst. of Tech. - Bombay
16:30-17:30	SaP2A1.7
Fast Extraction of Somatosensory Evoked Potential Based on Second Order Blind Identification , pp. 5457-5460.	
Liu, Hongtao	The Univ. of Hong Kong
Hu, Yong	The Univ. of Hong Kong
Chang, Chunqi	The Univ. of Hong Kong
Luk, KDK	Department of Orthopaedics and Traumatology, The Univ. of H

16:30-17:30		SaP2A1.8
Topography-Time-Frequency Atomic Decomposition for Event-Related M/EEG Signals , pp. 5461-5464.		
Bénar, Christian G.		INSERM
Clerc, Maureen		ENPC, ENS, INRIA
Papadopoulou, Théodore		INRIA Sophia-Antipolis
16:30-17:30		SaP2A1.9
In Vivo Comparison between the Principal Components Analysis and the Karhunen-Loève Transform As Methods Used for the De-Noising of Laser Doppler Reactive Hyperemia Signals , pp. 5465-5468.		
Mansouri, Chemseddine		Groupe ISAIP-ESAIP
Humeau, Anne	Groupe ISAIP-ESAIP and Univ. d'Angers	
L'huillier, Jean Pierre		ENSAM- ANGERS
16:30-17:30		SaP2A1.10
Task-Related Principal Component Analysis: Formalism and Illustration , pp. 5469-5472.		
Miller, Kai J		Univ. of Washington
Hebb, Adam O.		Univ. of Washington
Ojemann, Jeffrey G		Univ. of Washington
Rao, Rajesh PN		Univ. of Washington
denNijs, Marcel		Univ. of Washington
16:30-17:30		SaP2A1.11
Space-Time ICA versus Ensemble ICA for Ictal EEG Analysis with Component Differentiation Via Lempel-Ziv Complexity , pp. 5473-5476.		
James, Christopher		Univ. of Southampton
Abásolo, Daniel		Univ. of Valladolid
Gupta, Disha		Univ. of Southampton
16:30-17:30		SaP2A1.12
Feature Extraction for Snore Sound Via Neural Network Processing , pp. 5477-5480.		
Emoto, Takahiro		Takamatsu National Coll. of Tech.
Abeyratne, Udantha R		Univ. of Queensland
Akutagawa, Masatake		The Univ. of Tokushima
Nagashino, Hirofumi		The Univ. of Tokushima
Kinouchi, Yohsuke		The Univ. of Tokushima
16:30-17:30		SaP2A1.13
Independent Component Analysis for Extraction of Critical Features from Tongue Movement Ear Pressure Signals , pp. 5481-5484.		
Vaidyanathan, Ravi		Univ. of Southampton
James, Christopher		Univ. of Southampton
16:30-17:30		SaP2A1.14
Subspace Approaches for Fmri Time Series Estimation , pp. 5485-5488.		
Niskanen, Eini		Univ. of Kuopio
Tarvainen, Mika		Univ. of Kuopio
Könönen, Mervi		Kuopio Univ. Hospital
Soininen, Hilikka		Kuopio Univ. Hospital
Karjalainen, Pasi		Univ. of Kuopio
16:30-17:30		SaP2A1.15
Manifold Learning Applied on EEG Signal of the Epileptic Patients for Detection of Normal and Pre-Seizure States , pp. 5489-5492.		
Ataee, Pedram		Univ. of Tehran
yazdani, ashkan		Univ. of tehran
Setarehdan, Seyed Kamaleddin		Univ. of Tehran
Ahmadi Noubari, Hossein		Univ. of Tehran
16:30-17:30		SaP2A1.16
Extraction and Localization of Alpha Activity of the Brain in EEG and Fmri Using Constrained ICA , pp. 5493-5496.		
Ahn, Si Hyung		Kyung Hee Univ.
Lee, Won Hee		Kyung Hee Univ.
Kim, Tae-Seong		Kyung Hee Univ.
Lee, Soo Yeol		Kyung Hee Univ.
16:30-17:30		SaP2A1.17
Spatial Density Reduction in the Study of the ECG Signal Using Independent Component Analysis , pp. 5497-5500.		
Shayan-Arani, Amirali		Univ. of California, San Diego
Zhu, Yi		Univ. of California, San Diego
Zhang, Wanping		Univ. of California, San Diego
Jung, Tzyy-Ping		Univ. of California San Diego
Duann, Jeng-Ren		Univ. of California San Diego
Makeig, Scott		Univ. of California San Diego
Cheng, Chung-Kuan		Univ. of California, San Diego
16:30-17:30		SaP2A1.18
Estimation of Effects of Visually-Induced Motion Sickness Using Independent Component Analysis , pp. 5501-5504.		
Abe, Makoto	Graduate School of Engineering,	Tohoku Univ.
Yoshizawa, Makoto		Tohoku Univ.
Sugita, Norihiro		Tohoku Univ.
Tanaka, Akira		Fukushima Univ.
Yambe, Tomoyuki		Tohoku Univ.

Segmentation Village II: Statistical Methods and Others (Poster Session)

- 16:30-17:30 SaP2B1.1
Comparison between Manual and Semi-Automatic Segmentation of Nasal Cavity and Paranasal Sinuses from CT Images, pp. 5505-5508.
 Kathrin, Tingelhoff Bonn Univ.
 Moral, Analia Ines Tech. Univ. of Braunschweig
 kunkel, Maria Elizete Tech. Univ. Braunschweig
 Markus, Rilc TU BS
 Wagner, Ingo Bonn Univ.
 Eichhorn, Klaus W.G. Univ. of Bonn, Germany
 Wahl, Friedrich Tech. Univ. of Braunschweig
 Bootz, F Bonn Univ.
- 16:30-17:30 SaP2B1.2
Design of a Digital Phantom of the Neonatal Brain, pp. 5509-5512.
 Kazemi, Kamran Univ. of Picardie Jules Verne
 Grebe, Reinhard Univ. of Picardie Jules Verne
 Abrishami Moghadam, Hamid Univ. of Picardie Jules Verne
 Lagadec, Pierre Univ. of Picardie Jules Verne
 Gondry-Jouet, Catherine Centre Hospitalier Univ. d'Amiens
 Wallois, Fabrice Univ. of Picardie Jules Verne
- 16:30-17:30 SaP2B1.3
Automatic Segmentation of Chromosomes in Q-Band Images, pp. 5513-5516.
 Grisan, Enrico Univ. of Padova
 Poletti, Enea Univ. of Padova
 Tomelleri, Christopher Univ. di Padova, DEI
 Ruggeri, Alfredo Univ. of Padova
- 16:30-17:30 SaP2B1.4
Computer Assisted Detection of Cancer Cells in Minimal Samples of Lung Cancer, pp. 5517-5520.
 Ortiz-de-Solorzano, Carlos Centre for Applied Medical Res. (CIMA)
 Ucar-Vargas, Beatriz Centre for Applied Medical Res. (CIMA)
 Pengo, Thomas Centre for Applied Medical Res. (CIMA)
 Zudaire, Isabel Centre for Applied Medical Res. (CIMA)
 Montuenga, Luis Centre for Applied Medical Res. (CIMA)
 Muñoz-Barrutia, Arrate FIMA Foundation for Applied Medical Res.
- 16:30-17:30 SaP2B1.5
Context-Preserving Rendering of Medical Segmentation Data, pp. 5521-5524.
 Hughes, David Univ. of Wales, Bangor
 Lim, Ik Soo Univ. of Wales
- 16:30-17:30 SaP2B1.6
Stem-Cell Localization: A Deconvolution Problem, pp. 5525-5528.
 N. Kachouie, Nezamoddin Univ. of Waterloo
 Fieguth, Paul Univ. of Waterloo
- 16:30-17:30 SaP2B1.7
A Region Analysis Approach for Segmenting Neural-Cell Images, pp. 5529-5532.
 Yu, Donggang JCU
 Pham, Tuan D. James Cook Univ.
 Crane, Denis Griffith Univ.
- 16:30-17:30 SaP2B1.8
Bone Mineral Density Estimation Using the Filling Factor of the Radius X-Ray Image, pp. 5533-5535.
 Lee, Sooyeul Electronics & Telecom Res. Inst.
 Jeong, Ji-Wook Electronics and Telecommunications Res. Inst.
 Lee, Jeong Won Electronics & Telecom Res. Inst.
 Yoo, Done-Sik ETRI (Electronics & Telecom Res. Inst.)
 Kim, Seunghwan Electronics & Telecom Res. Inst.
- 16:30-17:30 SaP2B1.9
Shape Classification Techniques for Discrete 3D Porous Media Application to Trabecular Bone, pp. 5536-5539.
 Aufort, Gabriel Univ. d'Orléans
 JENNANE, Rachid Univ. d'Orléans
 HARBA, Rachid Univ. d'Orléans
 BENHAMOU, Claude-Laurent Centre hospitalier Régional d'Orléans
- 16:30-17:30 SaP2B1.10
An Efficient Method of Automatic Pulmonary Parenchyma Segmentation in CT Images, pp. 5540-5542.
 Chen, Zhaoxue Univ. of Shanghai for Science and Tech.
 sun, xiwen Tongji Univ.
 Nie, Shengdong Univ. of Shanghai for Science and Tech.
- 16:30-17:30 SaP2B1.11
Multidimensional Models for Methodological Validation in Multifractal Analysis, pp. 5543-5546.
 Lopes, Renaud Inserm, U703 and Univ. of Lille1
 DUBOIS, Patrick Inserm
 Bhourri, Imen TIM, Faculté des sciences
 PUECH, Philippe CHRU de Lille
 MAOUCHE, Salah UST Lille
 Betrouni, Nacim Inst. de Tech. Médicale

- 16:30-17:30
Brain MR Perfusion Image Segmentation Using Independent Component Analysis and Hierarchical Clustering, pp. 5547-5550.
 Lu, Chia-Fung
 Chou, Yen-Chun
 Guo, Wan-Yuo
 Wu, Yu-Te
 National Yang-Ming Univ.
 National Yang-Ming Univ.
 Taipei Veterans General Hospital
 National Yang-Ming Univ.
 SaP2B1.12
- 16:30-17:30
Segmentation of Lung Lobes in Isotropic CT Images Using Wavelet Transformation, pp. 5551-5554.
 Wei, Qiao
 Hu, Yaoping
 Gelfand, Gary
 MacGregor, J. H.
 Univ. of Calgary
 The Univ. of Calgary
 Foothills Medical Center
 Foothills Medical Center
 SaP2B1.13
- 16:30-17:30
Evaluation of Segmentation Algorithms in Coronary Angiography, pp. 5555-5558.
 Brieva, Jorge
 Ponce, Pedro
 Tecnologico De Monterrey
 Itesm -campus ccm Mexico
 SaP2B1.14
- 16:30-17:30
A K-Means Segmentation Method for Finding 2-D Object Areas Based on 3-D Image Stacks Obtained by Confocal Microscopy, pp. 5559-5562.
 Niemistö, Antti
 Korpelainen, Tomi
 Saleem, Ramsey
 Yli-Harja, Olli
 Aitchison, John
 Shmulevich, Ilya
 Inst. for Systems Biology
 Tampere Univ. of Tech.
 Inst. for Systems Biology
 Tampere Univ. of Tech.
 Inst. for Systems Biology
 Inst. for Systems Biology
 SaP2B1.15
- 16:30-17:30
Fast Brain MRI Segmentation Based on Two-Dimensional Survival Exponential Entropy and Particle Swarm Optimization, pp. 5563-5566.
 NAKIB, AMIR
 Roman, sophie
 oulhadj, hamouche
 siarry, patrick
 Univ. PARIS XII
 Univ. PARIS XII
 Univ. PARIS XII
 Univ. PARIS XII
 SaP2B1.16
- 16:30-17:30
Prostate Cancer Computer-Assisted Diagnosis Software Using Dynamic Contrast-Enhanced MRI, pp. 5567-5570.
 PUECH, Philippe
 Betrouni, Nacim
 Viard, Romain
 VILLERS, Arnauld
 Leroy, Xavier
 Lemaître, Laurent
 INSERM U703
 Inst. de Tech. Médicale
 CHRU Lille
 Univ. hospital of Lille
 Univ. hospital of Lille
 Univ. hospital of Lille
 SaP2B1.17
- 16:30-17:30
Automatic Vertebral Morphometry Assessment, pp. 5571-5574.
 Casciaro, Sergio
 Massoptier, Laurent
 Inst. of Clinical Physiology of National Res.
 Inst. of Clinical Physiology of National Res. Council
 SaP2B1.18
- 16:30-17:30
Fuzzy Algorithms to Extract Vacuoles of Steatosis on Liver Histological Color Images, pp. 5575-5578.
 ROULLIER, Vincent
 Cavaro-Ménard, Christine
 Aubé, Christophe
 calmon, guillaume
 Univ. of Angers
 Univ. d'Angers
 CHU d'angers
 GE Healthcare
 SaP2B1.19
- 16:30-17:30
Tissue Classification for MRI of Thigh Using a Modified FCM Method, pp. 5579-5584.
 KANG, han
 TALEB-AHMED, abdelmalik
 LAMIH UNR CNRS 8530
 Univ. de Valenciennes et du Hainaut Cambresis
 SaP2B1.20
- 16:30-17:30
A Study on Shape Determinative Slices for the Masseter Muscle, pp. 5585-5588.
 Ng, Hsiao Piau
 Foong, Kelvin Weng Chiong
 Ong, Sim Heng
 Liu, Jimin
 Goh, Poh Sun
 Nowinski, L. Wieslaw
 National Univ. of Singapore / Agency for Science, Tech.
 National Univ. of Singapore
 National Univ. of Singapore
 Agency for Science, Tech. & Res.
 National Univ. of Singapore
 Agency for Science, Tech. & Res.
 SaP2B1.21
- 16:30-17:30
Classification of Trabecular Bone Texture from MRI and CT Scan Images by Multi Resolution Analysis, pp. 5589-5592.
 KHIDER, Mohamed
 TALEB-AHMED, abdelmalik
 DUBOIS, Patrick
 LAMIH UNR CNRS 8530
 Univ. de Valenciennes et du Hainaut Cambresis
 Inserm
 SaP2B1.22

16:30-17:30		SaP2B1.23
<i>A Standardized Method to Automatically Segment Amyloid Plaques in Congo Red Stained Sections from Alzheimer Transgenic Mice</i> , pp. 5593-5596.		
Teboul, Olivier	Commissariat f l'Energie Atomique	
Feki, Abdelmonem	Commissariat f l'Energie Atomique	
Dubois, Albertine	Commissariat f l'Energie Atomique	
Bozon, Bruno	CNRS UMR 8620	
Faure, Alexis	CNRS UMR 8620	
Hantraye, Philippe	Commissariat f l'Energie Atomique	
Dhenain, Marc	Commissariat f l'Energie Atomique	
Delatour, Benoit	CNRS UMR 8620	
Delzescaux, Thierry	Commissariat f l'Energie Atomique	
16:30-17:30		SaP2B1.24
<i>Hausdorff Distance Based 3D Quantification of Brain Tumor Evolution from MRI Images</i> , pp. 5597-5600.		
RUAN, Su	IUT de Troyes, Univ. de Reims	
NICOLIER, Frédéric	IUT TROYES	
LEBONVALLET, Stéphane	IUT TROYES	
BAUDRIER, Etienne	CRESTIC	
16:30-17:30		SaP2B1.25
<i>Detection of Bleeding Patterns in WCE Video Using Multiple Features</i> , pp. 5601-5604.		
Lau, Phooi Yee	Inst. de Telecomunicações	
Correia, Paulo Lobato	Inst. Superior Tecnico - UTL	
16:30-17:30		SaP2B1.26
<i>A Medical Texture Local Binary Pattern (MTLBP) for TRUS Prostate Segmentation</i> , pp. 5605-5608.		
N. Kachouie, Nezamoddin	Univ. of Waterloo	
Fieguth, Paul	Univ. of Waterloo	
16:30-17:30		SaP2B1.27
<i>Three-Dimensional Activation Sequence Imaging in a Rabbit Model</i> , pp. 5609-5611.		
Han, Chengzong	Univ. of Minnesota	
Liu, Zhongming	Univ. of Minnesota	
Liu, Chenguang	Univ. of Minnesota	
Pogwizd, Steven	Univ. of Illinois at Chicago	
He, Bin	Univ. of Minnesota	
16:30-17:30		SaP2B1.28
<i>Contour Detection of the Cornea from OCT Radial Images</i> , pp. 5612-5615.		
Graglia, Florian	Univ. of Marseille, Information and System Science Lab.	
Mari, Jean-Luc	Univ. of Marseille, Information and System ScienceLaborator	
Baikoff, Georges	Clinique of Marseille	
Sequeira, Jean	Univ. of Marseille, Information and System Science Lab.	
16:30-17:30		SaP2B1.29
<i>Kernelized Fuzzy C-Means Method in Fast Segmentation of Demyelination Plaques in Multiple Sclerosis</i> , pp. 5616-5619.		
Kawa, Jacek	Silesian Univ. of Tech.	
Pietka, Ewa	Silesian Univ. of Tech.	
16:30-17:30		SaP2B1.30
<i>Multi-Contrast MR for Enhanced Bone Imaging and Segmentation</i> , pp. 5620-5623.		
Dalvi, Rupin	Univ. of British Columbia	
Abugharbieh, Rafeef	Univ. of British Columbia	
Wilson, Derek Charles	Univ.	
Wilson, David	Univ. of British Columbia	
16:30-17:30		SaP2B1.31
<i>Automatic Segmentation on Cell Image Fusing Gray and Gradient Information</i> , pp. 5624-5627.		
Liu, Boqiang	Shandong Univ.	
Yin, Cong	Shandong Univ.	
Liu, Zhongguo	Shandong Univ.	
Zhang, Yanyan	Shandong Univ.	
16:30-17:30		SaP2B1.32
<i>A Fast and Automatic Segmentation Method of MR Brain Images Based on Genetic Fuzzy Clustering Algorithm</i> , pp. 5628-5633.		
Nie, Shengdong	Univ. of Shanghai for Science and Tech.	
Zhang, Yingli	Univ. of Shanghai for Science and Tech.	
Li, Wen	Univ. of Shanghai	
Chen, Zhaoxue	Univ. of Shanghai for Science and Tech.	
16:30-17:30		SaP2B1.33
<i>Quantification of Microarchitecture Bone Junctions Based on a Dual Tree M-Band Wavelet Decomposition</i> , pp. 5634-5637.		
Ayadi, Walid	SUP'COM	
Benazza-Benyahia, Amel	SUP'COM	
Sevestre-Ghalila, Sylvie	U2S, ENIT / MAP5 Univ. Paris Descartes	
16:30-17:30		SaP2B1.34
<i>Computer-Aided Mass Detection on Digitized Mammograms Using Adaptive Thresholding and Fuzzy Entropy</i> , pp. 5638-5640.		
younesi, farzad	medical sciences/Univ. tehran	
Riyahi-Alam, Nader	School of Medicine, Medical Sciences/Univ. of Tehran	
aghaeizadeh zoroofi, reza	Univ. tehran	
Ahmadian, Alireza	Tehran Univ. of Medical Sciences	
Guiti, Massomeh	Tehran Univ. of Medical Sciences	

16:30-17:30		SaP2B1.35
Segmentation of Folds in Tissue Section Images , pp. 5641-5644.		
Palokangas, Sakari		Tampere Univ. of Tech.
Selinummi, Jyrki		Tampere Univ. of Tech.
Yli-Harja, Olli		Tampere Univ. of Tech.
16:30-17:30		SaP2B1.36
Live-Wire-Based 3D Segmentation Method , pp. 5645-5648.		
Wielawek, Wojciech		Silesian Univ. of Tech.
Pietka, Ewa		Silesian Univ. of Tech.
16:30-17:30		SaP2B1.37
Segmentation of Solid Nodules in Ultrasonographic Breast Image Based on Wavelet Transform , pp. 5649-5652.		
Park, Sangyun	Graduate School, Seoul National Univ. Seoul, Korea	
Kong, Hyoun-Joong	Seoul National Univ.	
Moon, Woo Kyung	Seoul National Univ. Hospital	
Kim, Hee Chan	Seoul National Univ.	

SaP2B2	Forum 5&6
Security, Transmission and Encoding of Medical Images (Poster Session)	

Chair: Coatrieux, Gouenou		ENST Bretagne - Inserm
Co-Chair: Laine, Andrew		Columbia Univ.
16:30-17:30		SaP2B2.1
Mixed Reversible and RONI Watermarking for Medical Image Reliability Protection , pp. 5653-5656.		
Coatrieux, Gouenou		ENST Bretagne - Inserm
Montagner, Julien		INSERM ; GET ENST Bretagne
Huang, Hui		INSERM, GET ENST Bretagne
Roux, Christian		ENST Bretagne - INSERM
16:30-17:30		SaP2B2.2
Security of Distributed Processing of Medical Image Data Using JINI Technology , pp. 5657-5660.		
Ruminski, Jacek		Gdansk Univ. of Tech.
16:30-17:30		SaP2B2.3
Evaluation of Medical Image Watermarking with Tamper Detection and Recovery (AW-TDR) , pp. 5661-5664.		
Zain, Jasni Mohamad		Univ. Malaysia Pahang
Fauzi, Mohammed		Intl Islamic Univ. of Malaysia
16:30-17:30		SaP2B2.4
Context Adaptive Lossless and Near-Lossless Coding for Digital Angiographies , pp. 5665-5668.		
Augusto Penna dos Santos, Rafael		UFRGS
Scharcanski, Jacob		UFRGS
16:30-17:30		SaP2B2.5
Interactive and Adaptive Progressive Transmission of Medical Images , pp. 5669-5672.		
Lo, Jen-Lung		Cardiff Univ.
Sanei, Saeid		Cardiff Univ.
Nazarpour, Kianoush		Cardiff Univ.

SaP2C1	Forum 5&6
Implantable and Communicative Sensors, Electrodes, System Integration III (Poster Session)	

Co-Chair: Neves, Herc		IMEC
16:30-17:30		SaP2C1.1
Optimal Operating Frequency in Wireless Power Transmission for Implantable Devices , pp. 5673-5678.		
Poon, Ada S Y		Univ. of Illinois at Urbana
O'Driscoll, Stephen		Stanford Univ.
Meng, Teresa		Stanford Univ.
16:30-17:30		SaP2C1.2
Analysis of Class-E Amplifier with Mixed Data Modulation for Biotelemetry , pp. 5679-5682.		
Yuce, Mehmet Rasit		Univ. of Newcastle
Laskovski, Anthony N. Laskovski		Univ. of Newcastle
16:30-17:30		SaP2C1.3
In Vitro Investigation of Eddy Current Effect on Pacemaker Operation Generated by Low Frequency Magnetic Field , pp. 5683-5686.		
Babouri, Abdesselam		LIEN, Univ. of Nancy 1
16:30-17:30		SaP2C1.4
Biomedical Stretchable Sytems Using Mid Based Stretchable Electronics Technology , pp. 5687-5690.		
axisa, fabrice		IMEC
Bossuyt, Frederick		TFCG IMEC Ghent
16:30-17:30		SaP2C1.5
A Laboratory Study on a Capacitive Displacement Sensor As an Implant Microphone in Totally Implant Cochlear Hearing Aid Systems , pp. 5691-5694.		
huang, ping		case western Res. Univ.
guo, jun		case western Res. Univ.
cliff a, megerian		case western Res. Univ.
Young, Darrin		Case Western Res. Univ.
Ko, Wen		Case Western Res. Univ.
16:30-17:30		SaP2C1.6
A Wide Range Charge-Balancing Circuit Using Floating-Gate Transistors , pp. 5695-5698.		
Hu, Jingzhen		North Carolina State Univ.
Gordon, Christal		NCSU

16:30-17:30		SaP2C1.7
Development of a System for Finding Best Electrode Position for Myoelectric Hand Control for Derating of Upper Limb Amputee , pp. 5699-5702.		
Konishi, Yuto	Osaka Electro-Communication Univ.	
Mizobata, Yusuke	Osaka Electro-Communication Univ.	
Yoshida, Masaki	Osaka Electro-Communication Univ.	
16:30-17:30		SaP2C1.8
Evaluation of an Implantable ECG Monitoring Device in Vitro and in Vivo , pp. 5703-5706.		
Riistama, Jarno	Tampere Univ. of Tech.	
Lekkala, Jukka	Tampere Univ. of Tech.	
Väisänen, Juho	Tampere Univ. of Tech.	
Heinisuo, Sami Markus	Tampere Univ. of Tech.	
Kaihilahti, Jutta	Univ. of Helsinki, Faculty of veterinary medicine	
16:30-17:30		SaP2C1.9
Microfluidic Module System with Piezo Driven Microvalve for Synthesis of Radiopharmaceutical Products , pp. 5707-5710.		
Scheuenpflug, Michael	TU München	
Guenther, Daniel	TU München	
Irlinger, Franz	TU München	
Lueth, Tim	Tech. Univ. of Munich	
SaP2C2		Forum 5&6
Wearable and Portable Communicative Systems III (Poster Session)		
16:30-17:30		SaP2C2.1
A Low-Cost Biomedical Signal Transceiver Based on a Bluetooth Wireless System , pp. 5711-5714.		
Fazel-Rezai, Reza	Univ. of Manitoba	
Pauls, Mark	Univ. of Manitoba	
Slawinski, David	Univ. of Manitoba	
16:30-17:30		SaP2C2.2
Wearable System-On-A-Chip Radiometer for Remote Temperature Sensing and Its Application to the Safeguard of Emergency Operators , pp. 5715-5718.		
Fonte, Alessandro	Univ. of Pisa	
Alimenti, Federico	Univ. of Perugia	
Zito, Domenico	Univ. of Pisa	
Neri, Bruno	Univ. of Pisa	
De Rossi, Danilo	Univ. of Pisa	
Lanata', Antonio	Univ. of Pisa	
tognetti, alessandro	Univ. of Pisa	
16:30-17:30		SaP2C2.3
Multisensor Approach to Walking Distance Estimation with Foot Inertial Sensing , pp. 5719-5722.		
Alvarez, Juan Carlos	Univ. de Oviedo	
Gonzalez, Rafael C.	Univ. de Oviedo	
Álvarez Prieto, Diego	Univ. de Oviedo	
Lopez, Antonio M.	Univ. de Oviedo	
Rodríguez-Uría, Javier	Univ. de Oviedo	
16:30-17:30		SaP2C2.4
A Wireless Tongue-Computer Interface Using Stereo Differential Magnetic Field Measurement , pp. 5723-5726.		
Huo, Xueliang	North Carolina State Univ.	
Wang, Jia	North Carolina State Univ.	
Ghovanloo, Maysam	North Carolina State Univ.	
SaP2C3		Forum 5&6
Textile Sensors and Smart Fabrics II (Poster Session)		
Co-Chair: Paradiso, Rita	Milior SpA	
16:30-17:30		SaP2C3.1
Development of a Wireless Capacitive Sensor for Ambulatory ECG Monitoring Over Clothes , pp. 5727-5730.		
Yama, Yoshihiro	TOKYO DENKI Univ.	
Ueno, Akinori	Tokyo Denki Univ.	
UCHIKAWA, Yoshinori	Tokyo Denki Univ.	
16:30-17:30		SaP2C3.2
A Capacitive Sensor System for Measuring Laplacian Electromyogram through Cloth: A Pilot Study , pp. 5731-5734.		
Ueno, Akinori	Tokyo Denki Univ.	
UCHIKAWA, Yoshinori	Tokyo Denki Univ.	
Noshiro, Makoto	Kitasato Univ.	
16:30-17:30		SaP2C3.3
Electrical Properties of Textile Electrodes , pp. 5735-5738.		
Rattfält, Linda	Linköping Univ.	
Chedid, Michel	Saab Training Systems	
Hult, Peter	Linköpings Univ.	
Lindén, Maria	Malardalen Univ.	
Ask, Per	Linköpings Univ.	
16:30-17:30		SaP2C3.4
Flexible Dry Surface-Electrodes for ECG Long-Term Monitoring , pp. 5739-5742.		
Hoffmann, Klaus-Peter	Fraunhofer Inst. für Biomedizinische Tech.	
Ruff, Roman	Fraunhofer Inst. für Biomedizinische Tech.	

SaP2C4	Forum 5&6
Sensors and Systems Enabling Ehealth, Phealth, Mhealth II (Poster Session)	
Chair: MAGLAVERAS, NIKOLAOS	Aristotle Univ. of Thessaloniki
16:30-17:30	SaP2C4.1
System to Assess Accuracy of Micromanipulation , pp. 5743-5746.	
Tun Latt, Win	Nanyang Tech. Univ.
Tan, U-Xuan	Nanyang Tech. Univ. Singapore
Lin, Jing Kai Daniel	Nanyang Tech. University
Veluvolu, Kalyana C.	Nanyang Tech. Univ.
Shee, Chengyap	Nanyang Tech. Univ.
Ang, Wei Tech	Nanyang Tech. Univ.
16:30-17:30	SaP2C4.2
An Evaluation of the Predictive Power of Component Vector Angles for Seated Spinal Posture Monitoring , pp. 5747-5750.	
Dunne, Lucy	Univ. Coll. Dublin
Walsh, Pauline	Univ. Coll. Dublin
smyth, barry	Univ. Coll. dublin
caulfield, brian	UCD
16:30-17:30	SaP2C4.3
Association of Heart Rates with Stress Response Inventory Scores in Different Age Groups , pp. 5751-5753.	
Kim, Jinho	Information and Communications Univ.
Youn, Chan-Hyun	Information and communications Univ.
Woo, Jong-Min	paik hospital
Kim, Desok	Information and Communications Univ.
Jung, Suntae	Samsung Electronics, Inc.
16:30-17:30	SaP2C4.4
A Novel Blood Pressure Monitoring Device for Ubiquitous Healthcare Services , pp. 5754-5757.	
Tatara, Naoe	Nippon Telegraph and Telephone
Koizumi, Hiroshi	Nippon Telegraph and Telephone Corp. (NTT)
Mino, Shinji	Nippon Telegraph and Telephone
Hayashida, Shoichi	NTT Electronics Corp.
Aihara, Kimihisa	NTT Advanced Tech. Corp.
Shimada, Junichi	Nippon Telegraph and Telephone
Uenishi, Yuji	NTT
Tochikubo, Osamu	Yokohama City Univ.
SaP2C5	Forum 5&6
Integrated Wearable Systems towards Biomedical Applications II (Poster Session)	
Chair: Di Rienzo, Marco	Fondazione Don Carlo Gnocchi
16:30-17:30	SaP2C5.1
A Handheld Device for Simultaneous Detection of Electrical and Mechanical Cardio-Vascular Activities with Synchronized ECG and CW-Doppler Radar , pp. 5758-5761.	
Muehlsteff, Jens	Philips
Thijs, Jeroen A.J.	Philips
Pinter, Robert	Philips
Morren, Geert	Philips
Muesch, Guido	Philips Tech. Res. Lab.
16:30-17:30	SaP2C5.2
A New Method for Intra Ocular Pressure in Vivo Measurement: First Clinical Trials , pp. 5762-5765.	
DUBOIS, Patrick	Inserm
ZEMMOURI, Jaouad	OSYRIS
ROULAND, Jean François	CHRU
ELENA, Pierre Paul	IRIS-PHARMA
Lopes, Renaud	Inserm, U703 and Univ. of Lille1
PUECH, Philippe	CHRU de Lille
16:30-17:30	SaP2C5.3
Low Power IC Design of the Wireless Monitoring System of the Orthopedic Implants , pp. 5766-5769.	
Chen, Hong	Tsinghua Univ.
Liu, Ming	Tsinghua Univ.
Jia, Chen	Tsinghua Univ.
Zhang, Chun	Department of Electronic Engineering, Tsinghua Univ. Beiji
Wang, Zhihua	Tsinghua Univ.
16:30-17:30	SaP2C5.4
Measurement System for Gesture Characterization During Chest Physiotherapy Act on Newborn Babies Suffering from Bronchiolitis , pp. 5770-5773.	
MARECHAL, Luc	Univ. of Savoie
BARTHOD, Christine	SYMME
LOTTIN, Jacques	SYMME
GAUTIER, Gérard	SYMME
JEULIN, Jean-Claude	RB74

SaP2D1		Forum 5&6
Auditory and Visual Neuroprostheses II (Poster Session)		
Chair: Suaning, Gregg Co-Chair: Szeto, Andrew		The Univ. of Newcastle San Diego State Univ.
16:30-17:30		SaP2D1.1
A Prototype Retinal Prosthesis for Visual Stimulation , pp. 5774-5777.		
Abu-Faraj, Ziad Abou Rjeily, Dany Bou Nasreddine, Rayan Andari, Majid Taok, Habib		American Univ. of Science & Tech. American Univ. Coll. of Science and Tech. American Univ. of Science and Tech. American Univ. of Science and Tech. American Univ. of Science and Tech.
16:30-17:30		SaP2D1.2
Accurate Presentation of the Target Range with a 2-D Tactile Stimulator Array for Acoustic Vision Substitute System , pp. 5778-5781.		
Taki, Hirofumi Sato, Toru Matsuda, Tetsuya		Kyoto Univ. Kyoto Univ. Kyoto Univ.
16:30-17:30		SaP2D1.3
Comparison of Voltage Parameters for the Stimulation of Normal and Degenerate Retina , pp. 5782-5785.		
Ye, Jang Hee Goo, Yong Sook		Chungbuk National Univ. Medical School Chungbuk National Univ. Medical Sch
16:30-17:30		SaP2D1.4
Implantable Stimulator Failures: Causes, Outcomes, and Solutions , pp. 5786-5789.		
Liu, Xiao Demosthenous, Andreas Donaldson, Nicholas de Neufville		Univ. Coll. London Univ. Coll. London Univ. Coll. London
16:30-17:30		SaP2D1.6
In Vivo Stimulation on Rabbit Retina Using CMOS LSI-Based Multi-Chip Flexible Stimulator for Retinal Prosthesis , pp. 5790-5793.		
Tokuda, Takashi Asano, Ryosuke Sugitani, Sachie Terasawa, Yasuo Nunoshita, Masahiro Nakauchi, Kazuaki Fujikado, Takashi Tano, Yasuo Ohta, Jun		Nara Inst. of Science & Tech. Nara Inst. of Science and Tech. Nara Inst. of Science and Tech. NIDEK Co. Nara Inst. of Science and Tech. Osaka Univ. Osaka Univ. Osaka Univ. Nara Inst. of Science and Tech.
16:30-17:30		SaP2D1.7
Application of Particle Swarm System As a Novel Parameter Optimization Technique on Spatiotemporal Retina Model , pp. 5794-5797.		
NIU, Xixian Qiu, Yihong Tong, Shanbao Zhu, Yisheng		Shanghai Jiao Tong Univ. Shanghai Jiao Tong Univ. Shanghai Jiao Tong Univ. Shanghai Jiaotong Univ. Shanghai, China
16:30-17:30		SaP2D1.7
The Reference Ear Modeling Method for Internally Feedback Controlled Digital Hearing Aid Chip , pp. 5798-5801.		
KIM, SUNYOUNG		KAIST

SaP2D2		Forum 5&6
Molecular and Cellular Biomechanics II (Poster Session)		
16:30-17:30		SaP2D2.1
High Resolution Regional Elasticity Mapping of the Human Prostate , pp. 5802-5805.		
Murayama, Yoshinobu Omata, Sadao Yajima, Toshikuni Peng, Qiyu Shishido, Keichi Peehl, Donna Constantinou, Chris		Nihon Univ. Nihon Univ. Nihon Univ. Coll. of engineering Stanford Univ. Fukushima Medical School Stanford Univ. School of Medicine Stanford Univ. School of Medicine
16:30-17:30		SaP2D2.2
A Model of Vein Graft Intimal Hyperplasia , pp. 5806-5809.		
Tran-Son-Tay, Roger Hwang, Minki Berceli, Scott Ozaki, C Keith Garbey, Marc		Univ. of Florida Univ. of Florida Univ. of Florida Univ. of Florida Univ. of Houston
16:30-17:30		SaP2D2.3
Measurement of Muscle Fiber Stiffness During Stretch with Two Continuous Different Velocities in Skeletal Muscle Fibers , pp. 5810-5813.		
Kobayashi, Takakazu Masaaki, Iwai Nguyen Phan, Kien		Shibaura Inst. of Tech. Shibaura Inst. of Tech. Shibaura Inst. of Tech.

16:30-17:30		SaP2D2.4
	Effects of Steep Pulsed Electric Fields (SPEF) on Mitochondrial Transmembrane Potential of Human Liver Cancer Cell , pp. 5814-5817.	
Mi, Yan		Chongqing Univ.
Sun, Caixin		Chongqing Univ.
Yao, Chenguo		Chongqing University
Li, CX		Chongqing Univ.
Mo, Dengbin		Chongqing Univ.
Tang, Liling		Chongqing Univ.
Liu, Huan		Chongqing Univ.
16:30-17:30		SaP2D2.5
	Frequency Response Model and Simulation of Transmembrane Potentials on Cellular Inner and Outer Membranes , pp. 5818-5821.	
Chen, Xin		Chongqing Univ.
Yao, Chenguo		Chongqing University
Sun, Caixin		Chongqing Univ.
Li, CX		Chongqing Univ.
Mi, Yan		Chongqing Univ.
Li, Cong		Chongqing Medical Univ.
Liu, Huan		Chongqing Univ.

SaP2D3	Forum 5&6
Cellular and Tissue Engineering II (Poster Session)	

16:30-17:30		SaP2D3.1
	Electric Impedance Assisted Micropipette Aspiration , pp. 5822-5825.	
Kovanen, Katrin		Tampere Univ. of Tech.
Lukkari, Mikko		Tampere Univ. of Tech.
Purmonen, Sami		Univ. of Tampere
Ylikomi, Timo		Univ. of Tampere
Viitanen, Jouko		Tech. Res. Center of Finland
Kallio, Pasi		Tampere Univ. of Tech.

16:30-17:30		SaP2D3.2
	The Dissociation Rate Affects the Directed Motion of the Molecular Motor , pp. 5826-5828.	
Han, Yingrong		Hebei Univ. of Tech.
ZHAN, Yong		Hebei Univ. of Tech.
Zhao, Tongjun		Hebei University of Tech.
Zhang, Yuhong		Hebei Univ. of Tech.
Liu, Hui		Hebei Univ. of Tech.
Chen, Ya-Fei		Univ.
Mei, Jun-Ping		Univ.

16:30-17:30		SaP2D3.3
	Effects of Low Level Red-Light Irradiation on the Proliferation of Mesenchymal Stem Cells Derived from Rat Bone Marrow , pp. 5829-5832.	
Li, Wen-Tyng		Chung-Yuan Christian Univ.

16:30-17:30		SaP2D3.4
	Effect of Low Intensity Ultrasounds on the Growth of Osteoblasts , pp. 5833-5836.	
Chen, Show-Huie		Chung Yuan Christian Univ.
Chiu, Chun-Yi		Chung Yuan Christian Univ.
Yeh, Jui-Ming		chung Yuan Christian Univ.
Wang, Shyh-Hau		Chung Yuan Christian Univ.

16:30-17:30		SaP2D3.5
	Effect of Ultrasound Doses on the Amyloid-β; 25-35 Induced PC12 Apoptosis , pp. 5837-5840.	
Chiu, Chun-Yi		Chung Yuan Christian Univ.
Chen, Show-Huie		Chung Yuan Christian Univ.
Wang, Shyh-Hau		Chung Yuan Christian Univ.

SaP2D4	Forum 5&6
Biomaterials and Cell-Biomaterial Interactions II (Poster Session)	

Chair: Migonney, Veronique	Univ. Paris
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16:30-17:30		SaP2D4.1
	Sterilization Using 365 Nm UV-LED , pp. 5841-5844.	
Yagi, Noriyuki		The Univ. of Tokushima
Mori, Mirei		The Univ. of Tokushima
Hamamoto, Akiko		The Univ. of Tokushima
Akutagawa, Masatake		The Univ. of Tokushima
Tachibana, Souko		The Univ. of Tokushima
Takahashi, Akira		The Univ. of Tokushima
Ikehara, Toshitaka		Univ. of Tokushima
Kinouchi, Yohsuke		The Univ. of Tokushima
Nakano, Masayuki		The Univ. of Tokushima

16:30-17:30		SaP2D4.2
	Effect of a Laser Irradiation on the Vascularisation of Safety and X-Ray Radiated Bone , pp. 5845-5848.	
Desmons, Sophie		Univ. of Lille 2, odontology
Delfosse, Caroline		Univ. of Lille2
Rochon, Philippe		Lille Univ. Hospital
Buys, Bruno		Inserm, IFR 114
Penel, Guillaume		Univ. of lille2
Mordon, Serge		Lille Univ. Hospital

16:30-17:30		SaP2D4.3
<i>Biocompatibility and Wettability of Crystalline SiC and Si Surfaces</i> , pp. 5849-5852.		
Coletti, Camilla		Univ. of South Florida
Jaroszeski, Mark		Univ. of South Florida
Pallaoro, Alessia		IFN-CNR
Hoff, Andrew		Univ. of South Florida
Iannotta, Salvatore		IFN-CNR
Saddow, Stephen		Univ. of South Florida
16:30-17:30		SaP2D4.4
<i>Biomimetic Synthesis of Calcium Phosphate Materials on Alkaline-; Treated Titanium</i> , pp. 5853-5856.		
Salemi, Hoda		Islamic Azad Univ. and Sciencebranch, Tehran, Iran
16:30-17:30		SaP2D4.5
<i>Immobilization of Fibronectin Onto a Large Area Nanoimprinted Polystyrene Patterns</i> , pp. 5857-5859.		
Lee, Wonbae		Korea Univ.
Ko, You-Jin		Korea Univ.
Lee, Kyu Back		Korea Univ.
16:30-17:30		SaP2D4.6
<i>Generation of Patterned Cell Co-Cultures in Silicone Tubing Using a Microelectrode Technique and Electrostatic Assembly</i> , pp. 5860-5863.		
Kaji, Hirokazu		Tohoku Univ.
Sekine, Soichiro		Tohoku Univ.
Hashimoto, Masahiko		Tohoku Univ.
Kawashima, Takeaki		Tohoku Univ.
Nishizawa, Matsuhiko		Tohoku Univ.
SaP2D5		Forum 5&6
Personal Health Systems III (Poster Session)		
16:30-17:30		SaP2D5.1
<i>A Service Platform Architecture Design towards a Light Integration of Heterogeneous Systems in the Wellbeing Domain</i> , pp. 5864-5867.		
Yang, Yaojin		Nokia Res. Center
Aino, Ahtinen, Aino		Nokia Res. Center
Lähteenmäki, Jaakko, Johannes		VTT Tech. Res. Centre of Finland
Nyman, Petri		Afetco Ltd.
Paajanen, Henrik		Afetco OY
Teijo Peltoniemi, Teijo		Afetco Oy
Carlos Quiroz, Carlos		Nokia Res. Center
16:30-17:30		SaP2D5.2
<i>Development of Easy Operating Arterial Stiffness Assessment Instrument for Homecare</i> , pp. 5868-5871.		
Wu, Hsien-Tsai		National Dong Hwa Univ.
16:30-17:30		SaP2D5.3
<i>Development of a Portable Vital Sensing System for Home Telemedicine</i> , pp. 5872-5877.		
Ichihashi, Fumiyuki		Univ. of Tsukuba
Sankai, Yoshiyuki		Univ. of Tsukuba
16:30-17:30		SaP2D5.4
<i>Drivers and Challenges of Personal Health Systems in Workplace Health Promotion (I)</i> , pp. 5878-5881.		
Ilvesmäki, Antti		VTT Tech. Res. Centre of Finland
16:30-17:30		SaP2D5.5
<i>Personal Health Systems and Value Creation Mechanisms in Occupational Health Care (I)</i> , pp. 5882-5885.		
Auvinen, Ari-Matti		Helsinki Univ. of Tech.
16:30-17:30		SaP2D5.6
<i>A Comparative Evaluation between Conditions of the Wrist Band Capacitively-Coupled ECG Recording through Signal-To-Noise Ratio</i> , pp. 5886-5889.		
Nakamura, Hideo		Osaka Electro-Communication Univ.
Shimada, Koichiro		Osaka Electro-Communication Univ.
Fujie, Tatsuro		Osaka Electro-Communication Univ.
16:30-17:30		SaP2D5.7
<i>Wireless Thermal Sensor Network with Adaptive Low Power Design</i> , pp. 5890-5893.		
Lee, Ho-Yin		National Cheng Kung Univ.
Chen, Shih-Lun		National Cheng Kung Univ.
Chen, Chiung-An		National Cheng Kung Univ.
Luo, Ching-Hsing		National Cheng Kung Univ.
16:30-17:30		SaP2D5.8
<i>A Wireless Medical Monitoring Over a Heterogeneous Sensor Network</i> , pp. 5894-5898.		
Yuce, Mehmet Rasit		Univ. of Newcastle
Ng, Peng Choong		Univ. of Newcastle
Lee, Chin Kang		Univ. of Newcastle
Khan, Jamil Y.		Univ. of Newcastle
Liu, Wentai		Univ. of California, Santa Cruz

16:30-17:30		SaP2D5.9
Target Source Detection Using an Improved Sensing Model in Wireless Sensor Networks (ISMWSNs) , pp. 5899-5902.		
Yang, Yongju		yonsei Univ.
Lee, Junghoon		Yonsei Univ.
JUNG, JIPMIN		YONSEI UNV.
Song, Sangha		Yonsei Univ.
Yoon, Hyung Ro		Yonsei Univ.
Yoon, Young-ro		Yonsei Univ.
16:30-17:30		SaP2D5.10
The Lavatory-Typed Health Monitoring System with Linear System Identification Scheme for Home Healthcare , pp. 5903-5906.		
Nam, Ki Tae		Yonsei Univ.
Ko, Jun Seob		Yonsei Univ.
Park, Sung Bin		Yonsei Univ.
Yoon, Hyung Ro		Yonsei Univ.
16:30-17:30		SaP2D5.11
A Customizable Mobile Tool for Supporting Health Behavior Interventions , pp. 5907-5910.		
Koskinen, Esa Tapani		Nokia
16:30-17:30		SaP2D5.12
An Approach Based on XML for Communication in Home Healthcare Systems , pp. 5911-5914.		
Martin Moreno, Javier		Univ. of Alicante
Ruiz Fernandez, Daniel		Univ. of Alicante
Soriano Paya, Antonio		Univ. of Alicante
16:30-17:30		SaP2D5.13
Analysis of 1/f Fluctuations of Heart Rate Response While Walking or Listening to Sounds , pp. 5915-5918.		
Tsuruoka, Masako		Univ. of Tokyo
TSURUOKA, Yuriko		The Inst. of Statistical Mathematics
Shibasaki, Ryosuke		Center for Spatial Information Science, Univ. of Tokyo
Yasuoka, Yoshifumi		Univ. of Tokyo

SaP2D6 Forum 5&6

Educational Tools and Degrees in Biomedical Engineering (Poster Session)

16:30-17:30 SaP2D6.1

Microarray Simulator As Educational Tool, pp. 5919-5922.

Ruusuvuori, Pekka Tampere Univ. of Tech.

Nykyter, Matti Tampere Univ. of Tech.

Mäkiraatikka, Eeva Tampere Univ. of Tech.

Lehmussola, Antti Tampere Univ. of Tech.

Korpelainen, Tomi Tampere Univ. of Tech.

Erkkilä, Timo Tampere Univ. of Tech.

Yli-Harja, Olli Tampere Univ. of Tech.

16:30-17:30 SaP2D6.2

Education in Biomedical Informatics: Learning by Doing Bioimage Archiving, pp. 5923-5927.

Marceglia, Sara Pol. di Milano

Bonacina, Stefano Pol. di Milano

Mazzola, Luca Pol. di Milano

Pincirolti, Francesco Pol. di Milano

16:30-17:30 SaP2D6.3

A Third Generation Physiology Lab Course for Biomedical Engineering and Health Sciences, pp. 5928-5931.

Schmidt, Robert Cleveland Medical Devices Inc.

16:30-17:30 SaP2D6.4

Biomedical Engineering Degrees at Lyon 1 University, pp. 5932-5935.

PERRIN, Emmanuel Univ. Lyon 1

Berger-Vachon, Christian UFR GEP

RAY, Cedric Univ. Lyon 1

Canet-Soulas, Emmanuelle Univ. Lyon 1

HARTMANN, Daniel Univ. Lyon 1

LOUDIN-DARDUN, Fabienne Univ. Lyon 1

Briguet, Andre Univ. Claude Bernard LYON1, CPE

16:30-17:30 SaP2D6.5

Biomedical Engineering As Health Care Profession, pp. 5936-5939.

Lhotska, Lenka Czech Tech. Univ. in Prague

16:30-17:30 SaP2D6.6

Biomedical Education for In-Hospital Engineers (I), pp. 5940-5941.

Langevin, François Compiègne Univ. of Tech.

Donadey, Alain Compiègne Univ. of Tech.

Hadjes, Pierre Compiègne Univ. of Tech.

Blagosklonov, Oleg CHU Jean Minjoz

SaD01 Gratte Ciel 1

Nonlinear Dynamic Analysis of Biomedical Signals I (Oral Session)

Co-Chair: Nollo, Giandomenico Univ. of Trento

17:30-17:45 SaD01.1

Characterization of Sample Entropy in the Context of Biomedical Signal Analysis, pp. 5942-5945.

Cuesta-Frau, David Pol. Univ. of Valencia

17:45-18:00		SaD01.2
Multiscale Regularity Analysis of the Heart Rate Variability: Stratification of Cardiac Death Risk , pp. 5946-5949.		
Valencia Murillo, Jose Fernando	Tech. Univ. of Catalonia	
Vallverdu, Montserrat	Tech. Univ. of Catalonia	
Cygankiewicz, Iwona	Medical Univ. of Lodz	
Voss, Andreas	Univ. of Applied Sciences Jena	
Vazquez, Rafael	Hospital Univ. Nuestra Señora de Valme	
Bayes de Luna, Antonio	Hospital de la Santa Creu i Sant Pau	
Caminal, Pere	Tech. Univ. of Catalonia (UPC)	
18:00-18:15		SaD01.3
Mapping Heart Dynamics by Using Nonlinear Indicators , pp. 5950-5953.		
Bonasera, Aldo	Istituto Nazionale di Fisica Nucleare	
Bucolo, Maide	Univ. degli Studi di Catania	
Caponetto, Riccardo	Univ. of Catania	
Fortuna, Luigi	Univ. of Catania	
Sapuppo, Francesca	Univ. degli Studi di Catania	
Virzè, Maria Celvisia	Univ. of Catania	
18:15-18:30		SaD01.4
Mutual Nonlinear Prediction of Cardiovascular Variability Series: Comparison between Exogenous and Autoregressive Exogenous Models , pp. 5954-5957.		
Faes, Luca	Univ. of Trento	
Porta, Alberto	Univ. degli Studi di Milano	
Nollo, Giandomenico	Univ. of Trento	
18:30-18:45		SaD01.5
The Strength of QT-RR Coupling Decreases During Graded Head-Up Tilt , pp. 5958-5961.		
Porta, Alberto	Univ. degli Studi di Milano	
Tobaldini, Eleonora	Univ. degli Studi di Milano	
Montano, Nicola	Univ. degli Studi di Milano	
Gnecchi-Ruscione, Tomaso	Ospedale S.L. Mandic	
18:45-19:00		SaD01.6
Developing Robust Recurrence Plot Analysis Techniques for Investigating Infant Respiratory Patterns , pp. 5962-5966.		
Terrill, Philip Ian	Univ. of Queensland	
Wilson, Stephen	Univ. of Queensland	
Cooper, David	Mater Misericordiae Children's Hospital	
Suresh, Sadasivam	Mater Children's Hospital	
SaD02		Gratte Ciel 2
Signal Processing in Proteomics and Biological Data (Oral Session)		
Chair: Carrault, Guy		Univ. de Rennes 1
17:30-17:45		SaD02.1
Nonlinear Modeling of Glucose Metabolism: Comparison of Parametric vs. Nonparametric Methods , pp. 5967-5970.		
Mitsis, Georgios D.	National Tech. Univ. of Athens	
Marmarelis, Vasilis	Univ. of Southern California	
17:45-18:00		SaD02.2
An Insulin Infusion Advisory System for Type 1 Diabetes Patients Based on Non-Linear Model Predictive Control Methods , pp. 5971-5974.		
Zarkogianni, Konstantia	National Tech. Univ. of Athens	
Mougiakakou, Stavroula	National Tech. Univ. of Athens	
Prountzou, Aikaterini	National Tech. Univ. of Athens	
Vazeou, Andriani	Faculty of Nursing, Univ. of Athens	
Bartsocas, Christos	Faculty of Nursing, Univ. of Athens	
Nikita, Konstantina	National Tech. Univ. of Athens	
18:00-18:15		SaD02.3
Effects of Residual Fluorescence on Time-Resolved Signals Simulated with the Finite Element Method in Biological Tissues , pp. 5975-5978.		
Kervella, Marine	Groupe ISAIP-ESAIP	
Humeau, Anne	Groupe ISAIP-ESAIP and Univ. d'Angers	
L'huillier, Jean Pierre	ENSAM- ANGERS	
18:15-18:30		SaD02.4
Bayesian Estimation for Molecular Profile Reconstruction in Proteomics Based on Liquid Chromatography and Mass Spectrometry , pp. 5979-5982.		
STRUBEL, Gregory	CEA LETI MINATEC	
GIOVANNELLI, Jean-Francois	CNRS-Supelec-UPS	
PAULUS, Caroline	CEA LETI MINATEC	
Gerfault, Laurent	CEA LETI	
Grangeat, Pierre	CEA LETI, MINATEC	
18:30-18:45		SaD02.5
Chromatographic Alignment Combined with Chemometrics Profile Reconstruction Approaches Applied to LC-MS Data , pp. 5983-5986.		
PAULUS, Caroline	CEA LETI MINATEC	
Bonnet, Stéphane	CEA Léti MINATEC	
Gerfault, Laurent	CEA LETI	
Mery, Emeline	CEA LETI	
STRUBEL, Gregory	CEA LETI MINATEC	
Ricoul, Florence	CEA LETI	
Grangeat, Pierre	CEA LETI, MINATEC	

18:45-19:00		SaD02.6
A Novel Ensemble Strategy for Classification of Prostate Cancer Protein Mass Spectra , pp. 5987-5990.		
Assareh, Amin		Amirkabir Univ. of Tech.
Moradi, Mohammad Hassan		Amirkabir Univ. of Tech.
Esmaeili, Vahid		Sharif Univ. of Tech.
19:00-19:15		SaD02.7
A Framework for Group Analysis of Fmri Data Using Dynamic Bayesian Networks , pp. 5991-5994.		
Li, Junning		Univ. of British Columbia
Wang, Z. Jane		Univ. of British Columbia
McKeown, Martin		Univ. of British Columbia

SaD03		Bellecour 1
Cardiac Imaging I (Oral Session)		
Chair: Magnin, Isabelle		INSA
17:30-17:45		SaD03.1
From 3D to 4D Imaging: Is That Useful for Interventional Cardiac Electrophysiology? , pp. 5995-5998.		
FENICI, Riccardo		Catholic Univ. of Sacred Heart
BRISINDA, Donatella		Catholic Univ. of Sacred Haert
17:45-18:00		SaD03.2
A New Fully-Digital Anthropomorphic and Dynamic Thorax/Heart Model , pp. 5999-6002.		
HADDAD, Rana		INSA de Lyon
Clarysse, Patrick		CNRS UMR#5220, Inserm U630, Univ. of Lyon
Magnin, Isabelle		INSA
18:00-18:15		SaD03.3
3D Multi-Object Segmentation of Cardiac MSCT Imaging by Using a Multi-Agent Approach , pp. 6003-6006.		
FLEUREAU, Julien		INSERM, U642, Univ. de Rennes 1
GARREAU, Mireille		INSERM, U642, Univ. de Rennes 1
Boulmier, Dominique		CHU Rennes
Hernández, Alfredo I		INSERM U642 LTSI.
18:15-18:30		SaD03.4
Towards in Vivo Diffusion Tensor MRI on Human Heart Using Edge-Preserving Regularization , pp. 6007-6010.		
Frindel, Carole		UMR CNRS 5220 - INSERM U630
robini, marc		CNRS UMR 5220
Rapacchi, Stanislas		UMR CNRS 5220 ; INSERM U630
ZHU, Yuemin		-
Croisille, Pierre		UMR CNRS 5220 ; INSERM U630
Stephant, Eric		UMR CNRS 5220 - Unité INSERM 630
18:30-18:45		SaD03.5
Assessment of Ventricular Mechanical Dyssynchrony by Short-Axis MRI , pp. 6011-6014.		
Mischi, Massimo		Eindhoven Univ. of Tech.
van den Bosch, Harrie		Catharina Hospital
Jansen, Annemieke		Catharina Hospital Eindhoven
Aarts, Ronald		Philips
Korsten, Erik		Eindhoven Univ. of Tech.

SaD04		Bellecour 3
Image Segmentation I (Oral Session)		
Chair: TREUILLET, Sylvie		Univ. Blaise Pascal de Clermont-Ferrand
Co-Chair: Ruggeri, Alfredo		Univ. of Padova
17:30-17:45		SaD04.1
3D Reconstruction of Head MRI Based on One Class Support Vector Machine with Immune Algorithm , pp. 6015-6018.		
Wang, Lei		Hebei Univ. of Tech.
Xu, Guizhi		Hebei Univ. of Tech.
Guo, Lei		Hebei Univ. of Tech.
Liu, Xuena		Hebei Univ. of Tech.
Yang, Shuo		Hebei Univ. of Tech.
17:45-18:00		SaD04.2
Research on the Segmentation of MRI Image Based on Multi-Classification Support Vector Machine , pp. 6019-6022.		
Guo, Lei		Hebei Univ. of Tech.
Liu, Xuena		Hebei Univ. of Tech.
Wu, Youxi		Hebei Univ. of Tech.
Yan, Weili		Hebei Univ. of Tech.
Shen, Xueqin		Hebei Univ. of Tech.
18:00-18:15		SaD04.3
A Semi-Automatic Clustering-Based Level Set Method for Segmentation of Endocardium from MSCT Images , pp. 6023-6026.		
Su, Qi		The Univ. of Hong Kong
Wong, Kwan-Yee K.		The Univ. of Hong Kong
Fung, George S. K.		The Univ. of Hong Kong

18:15-18:30		SaD04.4
Segmentation of Cells from 3-D Confocal Images of Live Zebrafish Embryo , pp. 6027-6030.		
Zanella, Cecilia		Bologna Univ.
Rizzi, Barbara		Bologna Univ.
Melani, Camilo		Univ. de Buenos Aires
Campana, Matteo		Bologna Univ.
Bourgine, Paul		Ec. Pol.
Mikula, Karol		Slovak Univ. of Tech.
Peyrieras, Nadine		CNRS
Sarti, Alessandro		Univ. of Bologna
18:30-18:45		SaD04.5
Supervised Tissue Classification from Color Images for a Complete Wound Assessment Tool , pp. 6031-6034.		
WANNOUS, Hazem		Orleans Univ.
TREUILLET, Sylvie		Univ. Blaise Pascal de Clermont-Ferrand
LUCAS, Yves		Orleans Univ.
18:45-19:00		SaD04.6
Corneal Endothelium Cell Field Analysis by Means of Interacting Bayesian Shape Models , pp. 6035-6038.		
Foracchia, Marco		Univ. of Padova
Ruggeri, Alfredo		Univ. of Padova
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SaD05		Tête d'Or Lounge
Implantable and Communicative Sensors, Electrodes, System Integration I (Oral Session)		
Chair: Neves, Herc		IMEC
Co-Chair: Delbeke, Jean		Univ. catholique de Louvain
17:30-17:45		SaD05.1
Development and Characterization of Choline and L-Glutamate Biosensor Integrated on Silicon Microprobes for In-Vivo Monitoring , pp. 6039-6042.		
Frey, Olivier		Univ. of Neuchatel
van der Wal, Peter		Univ. of Neuchatel
de Rooij, Nicolaas-F.		Univ. of Neuchatel
Koudelka, Milena		Univ. of Neuchatel
17:45-18:00		SaD05.2
Diamond Microelectrodes and CMOS Microelectronics for Wireless Transmission of Fast-Scan Cyclic Voltammetry , pp. 6043-6046.		
Roham, Masoud		Case Western Res. Univ.
Halpern, Jeffrey		Case Western Res. Univ.
Martin, Heidi		Case Western Res. Univ.
Chiel, Hillel		Case Western Res. Univ.
Mohseni, Pedram		Case Western Res. Univ.
18:00-18:15		SaD05.3
Sputtered Iridium Oxide for Stimulation Electrode Coatings (I) , pp. 6047-6050.		
Mokwa, Wilfried		RWTH Aachen Univ.
Wessling, Boerge		RWTH Aachen Univ.
Schnakenberg, Uwe		RWTH Aachen Univ.
18:15-18:30		SaD05.4
Analysis of Specific Absorption Rate and Current Density in an Energy Transmission System for a Wireless Capsule Endoscope , pp. 6051-6054.		
Shiba, Kenji		Hiroshima Univ.
Nagato, Tomohiro		Hiroshima Univ. Japan
Tsuji, Toshio		Hiroshima Univ.
Koshiji, Kohji		Tokyo Univ. of Science
18:30-18:45		SaD05.5
A Compact Nanopower Low Output Impedance CMOS Operational Amplifier for Wireless Intraocular Pressure Recordings , pp. 6055-6058.		
Dresher, Russell		Purdue Univ.
Irazoqui, Pedro		Purdue Univ.
18:45-19:00		SaD05.6
Flexible Electrode Technology for Peripheral Nerve Interfacing (I) , pp. 6059-6059.		
Durand, Dominique		Case Western Res. Univ.
19:00-19:15		SaD05.7
Innovative Approaches to Continuous Glucose Monitoring , pp. 6060-6063.		
Shenkman, Louis		Tel Aviv Univ. and Meir Hospital Center
Koukaki, Marina		Inst. of Molecular Biology and Biotechnology (IMBB)
Karamanou, Spyridoula		Inst. of Molecular Biology and Biotechnology (IMBB)
Economou, Anastassios		Inst. of Molecular Biology and Biotechnology (IMBB)

SaD06		Teçe d'Or 2
Technologies and Systems for in Vitro Analysis and Detection (Oral Session)		
Co-Chair: ALDERMAN, JOHN		TYNDALL
17:30-17:45		SaD06.1
Functional Specifications of an Integrated Proteomics Information Management and Analysis Platform , pp. 6064-6068.		
Tsiknakis, Manolis	Foundation for Res. and Tech. Hellas - FORTH	
Grangeat, Pierre	CEA LETI, MINATEC	
Binz, Pierre Alain	GENEVA BIOINFORMATICS (GeneBio) SA	
Potamias, George	Foundation for Res. and Tech. - Hellas	
Lisacek, Frederique	Swiss Bioinformatics Group	
Gerfault, Laurent	CEA LETI	
PAULUS, Caroline	CEA LETI MINATEC	
Manakanatas, Dimitris	Foundation for Res. and Tech. - Hellas	
Kondylakis, Vaggelis	Foundation for Res. and Tech. - Hellas	
Kondylakis, Haris	Foundation for Res. and Tech. - Hellas	
Perez, Manuel	Athos Origin SA	
Plexousakis, Dimitris	Foundation for Res. and Tech. - Hellas	
17:45-18:00		SaD06.2
A 64-Channel ASIC for In-Vitro Simultaneous Recording and Stimulation of Neurons Using Microelectrode Arrays , pp. 6069-6072.		
Billoint, Olivier	CEA-LETI	
Rostaing, Jean-Pierre	CEA-LETI	
Charvet, Guillaume	CEA Grenoble	
Yvert, Blaise	CNRS & Univ. Bordeaux 1&2	
18:00-18:15		SaD06.3
Localized High-Resolution MR Imaging of Rat Brain Architecture Using Micro-Fabricated Receive-Only RF Coil , pp. 6073-6076.		
Hsieh, Meng-Chi	National Taiwan Univ.	
Kuo, Li-Wei	National Taiwan Univ.	
Wu, Edzer	National Taiwan Univ.	
Chen, Jyh-Horng	National Taiwan Univ.	
18:15-18:30		SaD06.4
Geometry-Dependent Behavior of Fibroblast Cells in Three-Dimensional Silicon Microstructures , pp. 6077-6080.		
Nikkhah, Mehdi	Virginia Tech.	
Strobl, Jeannine	Edward Via Virginia Coll. of Osteopathic Medicine	
Agah, Masoud	Virginia Tech.	
18:30-18:45		SaD06.5
Using Microelectronics Technology to Communicate with Living Cells , pp. 6081-6084.		
Heer, Flavio	ETH Zurich	
Hafizovic, Sadik	ETH Zurich	
Frey, Urs	ETH Zurich	
Roscic, Branka	ETH Zurich	
Ugniwenko, Tanja	Univ. of Kaiserslautern	
Blau, Axel	Univ. of Kaiserslautern	
Hierlemann, Andreas	ETH Zurich	
18:45-19:00		SaD06.6
High-Resolution MEA Platform for In-Vitro Electrogenic Cell Networks Imaging , pp. 6085-6088.		
Imfeld, Kilian	Univ. of Neuchatel	
Garenne, Andre	Univ. Bordeaux 2	
Simon, Neukom	CSEM SA	
Maccione, Alessandro	Univ. of Genova	
Martinoia, Sergio	Univ. of Genova	
Koudelka, Milena	Univ. of Neuchatel	
Berdondini, Luca	Univ. of Neuchâtel	

SaD07		Bellecour 2
Sleep Disorders I (Oral Session)		
Chair: Behbehani, Khosrow		Univ. of Texas at Arlington
17:30-17:45		SaD07.1
Obstructive Sleep Apnea Syndrome Analysis in Children by Decreases in the Amplitude Fluctuations of Pulse Photoplethysmography: Role of Recording Duration and Heart Rate Variability , pp. 6089-6092.		
Gil, Eduardo	Zaragoza Univ.	
Vergara, Jose Maria	Miguel Servet Children Hospital	
Bianchi, Anna Maria	Pol. di Milano	
Laguna, Pablo	Zaragoza Univ.	
17:45-18:00		SaD07.2
Automatic Classification of Subjects with and without Sleep Apnea through Snoring Analysis , pp. 6093-6096.		
Solf-Soler, Jordi	Univ. Pol. de Catalunya	
Jané, Raimon	Univ. Pol. de Catalunya	
Fiz Fernandez, José Antonio	Hospital Univ. Germans Trias i Pujol	
Morera Prat, Jose	Hospital Univ. Germans Trias i Pujol	
18:00-18:15		SaD07.3
Detecting Electroencephalography Variations Due to Sleep Disordered Breathing Events , pp. 6097-6100.		
Xavier, Priya	UTA	
Behbehani, Khosrow	Univ. of Texas at Arlington	
Burk, John R.	Sleep Consultants Inc.	
Watenpugh, Donald	Sleep Consultants Inc.	

18:15-18:30		SaD07.4
<i>A Method to Detect Obstructive Sleep Apnea Using Neural Network Classification of Time-Frequency Plots of the Heart Rate Variability</i> , pp. 6101-6104.		
Al-Abed, Mohammad		Univ. of Texas at Arlington
Burk, John R.		Sleep Consultants Inc.
Lucas, Edgar A		Sleep Consultants Inc.
Manry, Michael		The Univ. of Texas at Arlington
Behbehani, Khosrow		Univ. of Texas at Arlington
18:30-18:45		SaD07.5
<i>Detection of Sleep Apnea from Surface ECG Based on Features Extracted by an Autoregressive Model</i> , pp. 6105-6108.		
Mendez, Martin		Pol. di Milano
Ruini, Davide		Bicocca Univ.
Villantieri, Omar Paolo		Pol. di Milano
Matteucci, Matteo		Pol. di Milano
Penzel, Thomas		Charite Univ. Hospital
Cerutti, Sergio		Pol. Univ. of Milan
Bianchi, Anna Maria		Pol. di Milano
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SaD08		Gratte Ciel Lounge
Control of Posture and Balance (Oral Session)		
Chair: ÓLaighin, Gearóid		National Univ. of Ireland, Galway
Co-Chair: Demongeot, Jacques		Lab. TIMC-IMAG, UMR CNRS 5525
17:30-17:45		SaD08.1
<i>Visual-Based Sensory Motor Learning During Dynamic Balance Tasks Viewed in a Virtual Environment</i> , pp. 6109-6112.		
Betker, Aimee L.		Univ. of Manitoba
Moussavi, Zahra		Univ. of Manitoba
Szturm, Tony		Univ. of Manitoba
17:45-18:00		SaD08.2
<i>Pressure Sensor-Based Tongue-Placed Electrotactile Biofeedback for Balance Improvement - Biomedical Application to Prevent Pressure Sores Formation and Falls</i> , pp. 6113-6116.		
Vuillerme, Nicolas		UMR UJF CNRS 5525
Chenu, Olivier		Lab. TIMC-IMAG, UMR CNRS 5525
Pinsault, Nicolas		Lab. TIMC-IMAG, UMR CNRS 5525
Moreau-Gaudry, Alexandre		Univ. Joseph Fourier - Grenoble Univ. Hospital
Fleury, Anthony		Univ. Joseph Fourier
Demongeot, Jacques		Lab. TIMC-IMAG, UMR CNRS 5525
Payan, Yohan		Lab. TIMC-IMAG, UMR CNRS 5525
18:00-18:15		SaD08.3
<i>Kinematics and Dynamic Complexity of Postural Transitions in Frail Elderly Subjects</i> , pp. 6117-6120.		
Ganea, Raluca Lidia		Ec. Pol. Federale de Lausanne
Paraschiv-Ionescu, Anisoara		Ec. Pol. Federale
Salarian, Arash		Ec. Pol. Federale
Bůla, Christophe		CHUV CUTR Sylvana
Martin, Estelle		CHUV CUTR Sylvana
Rochat, Stephane		CHUV CUTR Sylvana
Hoskovec, Constanze		CHUV CUTR Sylvana
Piot-Ziegler, Chantal		Univ. of Lausanne
Aminian, Kamiar		Ec. Pol. Federale
18:15-18:30		SaD08.4
<i>Evaluation of the Risk of Falling in Institution-Dwelling Elderly: Clinical Tests versus Biomechanical Analysis of Stepping-Up</i> , pp. 6121-6124.		
Michel-Pellegrino, Valérie		Univ. de Tech. de Troyes
Hewson, David J		Univ. de Tech. de Troyes
Drieux, Michčle		EHPAD
Duchęne, Jacques		UTT
18:30-18:45		SaD08.5
<i>Stability Limits in the Assessment of Postural Control through the Time-To-Boundary Function</i> , pp. 6125-6128.		
Schmid, Maurizio		Univ. Roma TRE
Conforto, Silvia		Univ. Roma TRE
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SaD09		Gratte Ciel 3
Myo-Electric Control of Prostheses (Oral Session)		
17:30-17:45		SaD09.1
<i>EMG Spike Time Difference Based Feedback Control</i> , pp. 6129-6132.		
BUTALA, JAYDRATH		Univ. OF SASKATCHEWAN
Arkles, Anthony		Univ. of Saskatchewan
Gray, John		Univ. of Saskatchewan
17:45-18:00		SaD09.2
<i>Simultaneous, Proportional, Multi-Axis Prosthesis Control Using Multichannel Surface EMG</i> , pp. 6133-6136.		
Yatsenko, Dimitri		Univ. of Utah
McDonnall, Daniel		Ripple, LLC
Guillory, Kenneth Shane		Ripple LLC

18:00-18:15		SaD09.3
A Control System for a Powered Prosthesis Using Positional and Myoelectric Inputs from the Shoulder Complex , pp. 6137-6140.		
Losier, Yves	Inst. of Biomedical Engineering, Univ. of New	
Englehart, Kevin	Univ. of New Brunswick	
Hudgins, Bernard	Univ. of New Brunswick	
18:15-18:30		SaD09.4
A New Biomechanical Hand Prosthesis Controlled by Surface Electromyographic Signals , pp. 6141-6144.		
Andrade, Nei Augusto	Univ. of Brasilia	
Borges, Geovany Araujo	Univ. of Brasilia	
Assis de Oliveira Nascimento, Francisco	Univ. of Brasilia	
Romariz, Alexandre Ricardo Soares	Univ. of Brasilia	
da Rocha, Adson F.	Univ. of Brasilia	
18:30-18:45		SaD09.5
Towards the Control of Individual Fingers of a Prosthetic Hand Using Surface EMG Signals , pp. 6145-6148.		
Tenore, Francesco	Johns Hopkins Univ.	
Ramos Murguialday, Ander	Fatronik; Tech. Univ. Munich; Johns Hopkins Univ.	
Fahmy, Amir	Johns Hopkins Univ.	
Acharya, Soumyadipta	Johns Hopkins Univ.	
Etienne-Cummings, Ralph	Johns Hopkins Univ.	
Thakor, Nitish	Johns Hopkins Univ.	

SaD10 Rhône 1
Invited Session: Challenges and Business Models for Personal Health Systems (Minisymposium)

Chair: Korhonen, Ilkka	VTT
Organizer: Korhonen, Ilkka	VTT
17:30-17:45	SaD10.1
Personal Health Systems: How Can Successful Research Reach Implementation? (I) , pp. 6149-6149.	
Gatzoulis, Loukianos	European Commission
Iakovidis, Ilias	European Commission
17:45-18:00	SaD10.2
Distributed Diagnosis and Home Healthcare, Its Opportunities and Challenges (I) , pp. 6150-6150.	
Kim, Yongmin	Univ. of Washington
Kim, Eung-Hun	Univ. of Washington
18:00-18:15	SaD10.3
The Business Case for Home Telecare: A Comparative Analysis between the USA, Europe and Australasia (I) , pp. 6151-6151.	
Celler, Branko George	Univ. of New South Wales
Lovell, Nigel H	Univ. of New South Wales
Basilakis, Jim	Univ. of NSW
18:15-18:30	SaD10.4
Personal Health Systems – Need, Market Place and Challenges to Their Wide Scale Adoption (I) , pp. 6152-6153.	
Korhonen, Ilkka	VTT
Saranummi, Niilo	VTT Tech. Res. Centre
18:30-18:45	SaD10.5
Some Perspectives on Affordable Healthcare Systems in China (I) , pp. 6154-6154.	
Zhang, Yuan-Ting	The Chinese Univ. of Hong Kong
Yan, Yongsheng	The Chinese Univ. of Hong Kong
Poon, Carmen CY	The Chinese Univ. of Hong Kong

SaD11 Tête d'Or 1
Biomedical Engineering and Society (Minisymposium)

Chair: Flexman, Jennifer A.	Univ. of Washington
Co-Chair: Lazareck, Lisa Joanna	Univ. of Oxford
Organizer: Flexman, Jennifer A.	Univ. of Washington
17:30-17:45	SaD11.1
Biomedical Engineering and Society: Policy and Ethics (I) , pp. 6155-6157.	
Flexman, Jennifer A.	Univ. of Washington
Lazareck, Lisa Joanna	Univ. of Oxford

SaD12 Rhône 2
Improving Outcomes with Interoperable EHRs and Secure Global Health Information Infrastructure (Minisymposium)

Chair: Coatrieux, Gouenou	ENST Bretagne - Inserm
Co-Chair: Kun, Luis	IRMC-NDU
Organizer: Kun, Luis	IRMC-NDU
Organizer: Beuscart, Régis	Univ. hospital of Lille
Organizer: Coatrieux, Gouenou	ENST Bretagne - Inserm
Organizer: Sloane, Elliot B.	Villanova Univ.
17:30-17:45	SaD12.1
Improving Outcomes with Interoperable EHRs and Secure Global Health Information Infrastructure (I) , pp. 6158-6159.	
Kun, Luis	IRMC-NDU
Beuscart, Régis	Univ. hospital of Lille
Coatrieux, Gouenou	ENST Bretagne - Inserm
Quantin, Catherine	Dijon Univ. Hospital

17:45-18:00 SaD12.2
Interoperability Issues Regarding Patient Identification in Europe (I), pp. 6160-6160.
 Quantin, Catherine Dijon Univ. Hospital
 Allaert, François-André CHU de Dijon
 Fassa, Maniane CHU Dijon
 Avillach, Paul Univ. Bordeaux
 Fieschi, Marius Univ. Marseille
 Cohen, Olivier HC Forum

SaD13 Roseraie 1,2
Laws, Standards and Taxonomies (Minisymposium)

Chair: Carey, Carole U.S. Food and Drug Administration
 Co-Chair: Mezzour, Saad Medtronic
 Organizer: Carey, Carole U.S. Food and Drug Administration
 Organizer: Sloane, Elliot B. Villanova Univ.

17:30-17:45 SaD13.1

Telemonitoring Systems Interoperability Challenge: A New Updated Review of the Applicability of ISO/IEEE 11073 Standards for Interoperability in Telemonitoring (I), pp. 6161-6165.

Galarraga, Miguel Public Univ. of Navarra
 Serrano, Luis Public Univ. of Navarra
 Martínez Ruiz, Ignacio Univ. of Zaragoza
 de Toledo, Paula Univ. Pol. de Madrid
 Reynolds, Melvin Ian AMS Consulting

17:45-18:00 SaD13.2

Issues and Design Solutions Associated with Performing MRI Scans on Patients with Active Implantable Medical Devices (I), pp. 6166-6169.

Stevenson, Robert Greatbatch, Inc.
 Frysz, Christine A. Greatbatch, Inc
 Dabney, Warren Greatbatch, Inc.

18:00-18:15 SaD13.3

Regulations and Standards for Wireless Applications in Ehealth (I), pp. 6170-6173.

Chadwick, Peter E. Zarlink Semiconductor

18:15-18:30 SaD13.4

Developing a Standard for Personal Health Devices Based on 11073 (I), pp. 6174-6176.

Clarke, Malcolm Brunel Univ.
 Bogia, Doug Intel Corp.
 Hassing, Kai Philips Medizin Systeme Böblingen GmbH
 Steubesand, Lars Philips Medizin Systeme Böblingen GmbH
 Chen, Tony Sharp Lab. of America
 Ayyagari, Deepak Sharp Lab. of America

18:30-18:45 SaD13.5

Using Standards to Automate Electronic Health Records (EHRs) and to Create Integrated Healthcare Enterprises (I), pp. 6177-6178.

Sloane, Elliot B. Villanova Univ.
 Carey, Carole U.S. Food and Drug Administration

SuA01 Gratte Ciel 1

Nonlinear Dynamic Analysis of Biomedical Signals II (Oral Session)

Co-Chair: Porta, Alberto Univ. degli Studi di Milano

08:30-08:45 SuA01.1

Analysis of Spontaneous MEG Activity in Patients with Alzheimer's Disease Using Spectral Entropies, pp. 6179-6182.

Poza, Jesús Univ. de Valladolid
 Hornero, Roberto Univ. of Valladolid
 Abásolo, Daniel Univ. of Valladolid
 Fernandez, Alberto Univ. Complutense de Madrid
 Escudero, Javier Univ. of Valladolid

08:45-09:00 SuA01.2

Analysis of MEG Recordings from Alzheimer's Disease Patients with Sample and Multiscale Entropies, pp. 6183-6186.

Gomez, Carlos Univ. of Valladolid
 Hornero, Roberto Univ. of Valladolid
 Abásolo, Daniel Univ. of Valladolid
 Fernandez, Alberto Univ. Complutense de Madrid
 Escudero, Javier Univ. of Valladolid

09:00-09:15 SuA01.3

Connectivity Analysis of EEG under Drug Therapy, pp. 6187-6190.

Alonso, Joan Francesc Tech. Univ. of Catalonia (UPC)
 Mañanas, Miquel Angel Tech. Univ. of Catalonia (UPC)
 Romero, Sergio Tech. Univ. of Catalonia (UPC)
 Riba, Jordi Hospital de la Santa Creu i Sant Pau
 Barbanj, Manuel Farmacología Clínica. Hospital de la Santa Creu i Sant Pau
 Hoyer, Dirk Friedrich Schiller Univ.

09:15-09:30		SuA01.4
Electroencephalogram Background Activity Characterization with Approximate Entropy and Auto Mutual Information in Alzheimer's Disease Patients , pp. 6191-6194.		
Abásolo, Daniel		Univ. of Valladolid
Hornero, Roberto		Univ. of Valladolid
Espino, Pedro		Hospital Clínico San Carlos
Escudero, Javier		Univ. of Valladolid
Gomez, Carlos		Univ. of Valladolid
09:30-09:45		SuA01.5
Bispectral Analysis of Snore Signals for Obstructive Sleep Apnea Detection , pp. 6195-6198.		
Ng, Andrew Keong		Nanyang Tech. Univ.
Wong, Kim Yong		Nanyang Tech. Univ.
Tan, Chin Hao		Nanyang Tech. Univ.
Koh, Tong San		Nanyang Tech. Univ.
09:45-10:00		SuA01.6
Nonlinear Analysis and Classification of Vocal Disorders , pp. 6199-6202.		
Seyed Aghazadeh, Babak		Tehran Univ.
Khadivi Heris, Hossein		Tehran Univ.
Nikkhah-Bahrami, Mansour		Tehran Univ.
SuA02		Gratte Ciel 2
PCA and ICA in Biomedical Signals II (Oral Session)		
Chair: Laguna, Pablo		Zaragoza Univ.
Co-Chair: Cerutti, Sergio		Pol. Univ. of Milan
08:30-08:45		SuA02.1
Fast Multichannel Blind System Identification Using Laguerre Filters , pp. 6203-6206.		
Dempsey, Erika		Univ. of Calgary
Westwick, David		Univ. of Calgary
08:45-09:00		SuA02.2
Pre-Processing and Source Separation Methods for Raman Spectra Analysis of Biomedical Samples , pp. 6207-6210.		
Gobinet, Cyril		Univ. de Reims Champagne-Ardenne
Vrabie, Valeriu		Univ. de Reims Champagne-Ardenne
Tfayli, Ali		Univ. de Reims Champagne-Ardenne
Piot, Olivier		Univ. de Reims Champagne-Ardenne
Huez, Régis		Univ. de Reims Champagne-Ardenne
Manfait, Michel		Univ. de Reims Champagne-Ardenne
09:00-09:15		SuA02.3
A Robust Minimum Variance Beamforming Approach for the Removal of the Eye-Blink Artifacts from EEGs , pp. 6211-6214.		
Nazarpour, Kianoush		Cardiff Univ.
Wongsawat, Yodchanan		The Univ. of Texas, Arlington
Sanei, Saeid		Cardiff Univ.
Oraintara, Soontorn		Univ. of Texas at Arlington
Chambers, Jonathon A.		Cardiff Univ.
09:15-09:30		SuA02.4
Multivariate Analysis in Clinical Monitoring: Detection of Intraoperative Hemorrhage and Light Anesthesia , pp. 6215-6218.		
Yang, Ping		Univ. of British Columbia
Dumont, Guy		Univ. of British Columbia
Ford, Simon		Univ. of British Columbia
Ansermino, J. Mark		British Columbia's Children's Hospital
09:30-09:45		SuA02.5
Spatio-Temporal Analysis of Mixed AEF and SEF Using Dynamic Singular Value Decomposition , pp. 6219-6222.		
Kim, Bong-Soo		Tokyo Denki Univ.
UCHIKAWA, Yoshinori		Tokyo Denki Univ.
09:45-10:00		SuA02.6
Objective Source Selection in Blind Source Separation of AEPs in Children with Cochlear Implants , pp. 6223-6226.		
Castaneda-Villa, Norma		Southampton Univ.
James, Christopher		Univ. of Southampton
10:00-10:15		SuA02.7
On Estimating the Signal Subspace Dimension of High-Density Multichannel Magnetoencephalogram Measurements , pp. 6227-6230.		
Hesse, Christian		F.C. Donders Centre for Cognitive Neuroimaging
SuA03		Bellecour 1
Methods in Biological Imaging I (Oral Session)		
Co-Chair: Ortiz-de-Solorzano, Carlos		Centre for Applied Medical Res. (CIMA)
08:30-08:45		SuA03.1
Fast Self-Collision Detection and Simulation of Bifurcated Stents to Treat Abdominal Aortic Aneurysms (AAA) , pp. 6231-6234.		
Egger, Jan		Univ. of Marburg
Mostarkic, Zvonimir		Univ. of Marburg
Maier, Florian		Univ. Karlsruhe (TH)
Kaftan, Jens N.		RWTH Aachen Univ.
Grosskopf, Stefan		Siemens AG Medical Solutions
Freisleben, Bernd		Univ. of Marburg

08:45-09:00		SuA03.2
Automatic Analysis of Microrna Microarray Images Using Mathematical Morphology , pp. 6235-6238.		
meyenhofer, Felix		Univ. of Geneva
Schaad, Olivier		Univ. of Geneva
Descombes, Patrick		Univ. of Geneva
Kocher, Michel		Univ. of Applied Sciences Geneva
09:00-09:15		SuA03.3
A Comparative Study of Adaptive Registration Methods for Two Dimensional Gel Electrophoresis Images , pp. 6239-6242.		
XIN, Huamei		INSA LYON
ZHU, Yuejin		-
WU, Longfei		l'Univ. de la Méditerranée
09:15-09:30		SuA03.4
Digital Holographic Microscopy Applied to Life Sciences , pp. 6243-6246.		
Depeursinge, Christian		Ec. Pol. fédérale de Lausanne
Colomb, Tristan		CHUV
Yves, Emery		Lyncée Tec SA
kuehn Jonas, Jonas Kuehn		Ec. Pol. fédérale de Lausanne
Charrière, Florian, Florian Charrière		Ec. Pol. fédérale de Lausanne
Marquet, Pierre, Pierre Marquet		CHUV
Rappaz, Benjamin, Benjamin Rappaz		Ec. Pol. Fédérale de Lausanne
09:30-09:45		SuA03.5
Non-Negative Matrix Factorization Spectral Unmixing of M-FISH Images , pp. 6247-6250.		
Muñoz-Barrutia, Arrate		Centre for Applied Medical Res.
García-Muñoz, Javier		Centre for Applied Medical Res.
Ucar-Vargas, Beatriz		Centre for Applied Medical Res. (CIMA)
Fernández-García, Ignacio		Centre for Applied Medical Res.
Ortiz-de-Solorzano, Carlos		Centre for Applied Medical Res. (CIMA)
09:45-10:00		SuA03.6
3-D Zebrafish Embryo Image Filtering by Nonlinear Partial Differential Equations , pp. 6251-6254.		
Rizzi, Barbara		Bologna Univ.
Campana, Matteo		Bologna Univ.
Zanella, Cecilia		Bologna Univ.
Melani, Camilo		Univ. de Buenos Aires
Cunderlik, Robert		Slovak Univ. of Tech. Faculty of Civil
Krivý, Zuzana		Slovak Univ. of Tech.
Bourgine, Paul		Ec. Pol.
Mikula, Karol		Slovak Univ. of Tech.
Peyrieras, Nadine		CNRS
Sarti, Alessandro		Univ. of Bologna
SuA04		Bellecour 3
Fuzzy and Statistical Segmentation (Oral Session)		
Chair: Roux, Christian		ENST Bretagne - INSERM
08:30-08:45		SuA04.1
Combining MIP Images and Fuzzy Set Principles for Vessels Segmentation: Application to TOF MRA and CE-MRA , pp. 6255-6258.		
Vermandel, Maximilien		Univ. de Lille
Betrouni, Nacim		Inst. de Tech. Médicale
Viard, Romain		CHRU Lille
DEWALLE, ANNE-SOPHIE		Univ. des Sciences et Tech. de Lille
Blond, Serge		Service de Neurochirurgie - Hôp. Salengro
Rousseau, Jean		INSERM - Univ. de Lille 2
08:45-09:00		SuA04.2
Lung Tissue Classification Using Wavelet Frames , pp. 6259-6262.		
Depeursinge, Adrien		Univ. and Univ. Hospitals of Geneva (HUG)
Sage, Daniel		Swiss Federal Inst. of Tech. Lausanne (EPFL)
Hidki, Asmâa		Univ. and Univ. Hospitals of Geneva (HUG)
Platon, Alexandra		Univ. and Univ. Hospitals of Geneva (HUG)
Poletti, Pierre-Alexandre		Univ. and Univ. Hospitals of Geneva (HUG)
Unser, Michael		EPFL
Müller, Henning		Univ. and Univ. Hospitals of Geneva (HUG)
09:00-09:15		SuA04.3
Segmentation of Brain Parenchyma Using Bilateral Filtering and Region Growing , pp. 6263-6266.		
Hwang, Jinyoung		Korea Advanced Inst. of Science and Tech.
Han, Yeji		Korea Advanced Inst. of Science and Tech.
Park, HyunWook		Korea Advanced Inst. of Science and Tech.
09:15-09:30		SuA04.4
An Unified Framework for Bayesian Denoising for Several Medical and Biological Imaging Modalities , pp. 6267-6270.		
Sanches, João		Inst. Superior Técnico / Inst. de SistemaseRobótica
Nascimento, Jacinto		Inst. Superior Técnico
Marques, Jorge		Inst. Superior Tecnico andInstituteforSystemsandRobotics

09:30-09:45 SuA04.5
Shape Characterization of Extracted and Simulated Tumor Samples Using Topological and Geometric Measures, pp. 6271-6277.
 Rohrschneider, Markus Univ. of Leipzig
 Scheuermann, Gerik Univ. of Leipzig
 Hoehme, Stefan Univ. of Leipzig
 Drasdo, Dirk INRIA (French National Inst. for Res. in Computer Scienc

SuA05 Tête d'Or Lounge

Sensors and Systems Enabling Ehealth, Phealth, Mhealth I (Oral Session)

Chair: Celler, Branko George Univ. of New South Wales
 Co-Chair: MAGLAVERAS, NIKOLAOS Aristotle Univ. of Thessaloniki

08:30-08:45 SuA05.1

Miniature Wireless Inertial Sensor for Measuring Human Motions, pp. 6278-6281.
 Van Acht, Victor Philips Res.
 Bongers, Edwin Philips Res.
 Lambert, Niek Philips Res.
 Verberne, Rene Philips Res.

08:45-09:00 SuA05.2

Heart Rate Detection from an Electronic Weighing Scale, pp. 6282-6285.
 González-Landaeta, Rafael Castelldefels School of Tech. Tech. Univ.
 Casas, Oscar Tech. Univ. of Catalonia
 Pallàs-Areny, Ramon Univ. Pol. de Catalunya

09:00-09:15 SuA05.3

Continuous Activity Monitoring and Intelligent Contextual Prompting to Improve Medication Adherence, pp. 6286-6289.
 Lundell, Jay Intel Corp.
 Hayes, Tamara Oregon Health and Science Univ.
 Vurgun, Sengul Intel Corp.
 Ozertem, Umut O.H.S.U.
 Kimel, Janna Intel
 Kaye, Jeffrey A. Oregon Health and Science Univ.
 Guilak, Farzin Intel Corp.
 Pavel, Michael Oregon Health and Science Univ.

09:15-09:30 SuA05.4

Analysis of Feature Space for Monitoring Persons with Parkinson's Disease with Application to a Wireless Wearable Sensor System, pp. 6290-6293.
 Patel, Shyamal Harvard Medical School
 Lorincz, Konrad Harvard Univ.
 Hughes, Richard Harvard Medical School
 Huggins, Nancy Harvard Medical School
 Growdon, John H. Harvard Medical School
 Welsh, Matt Harvard Univ.
 Bonato, Paolo Harvard Medical School

09:30-09:45 SuA05.5

An Improved Method to Continuously Monitor the Electrode-Skin Impedance During Bioelectric Measurements, pp. 6294-6297.
 Degen, Thomas Werner HSR Univ. of Applied Sciences Rapperswil
 Loeliger, Teddy HSR Univ. of Applied Sciences Rapperswil

09:45-10:00 SuA05.6

Health Care Applications Based on Mobile Phone Centric Smart Sensor Network, pp. 6298-6301.
 Quero, Jose M. Univ. de Sevilla
 Tarrida, Cristina L. Univ. de Sevilla
 Santana, J.J. Cardiplus S. L.
 Ermolov, V. Nokia
 Jantunen, I. Nokia
 Laine, H. Nokia
 Eichholz, J. Fraunhofer-ISIT

SuA06 Tête d'Or 2

Microfluidic Techniques and Systems (Oral Session)

Co-Chair: NICOLAS, Laurent CNRS - Ec. Centrale de Lyon

08:30-08:45 SuA06.1

Integrated Microfluidic Systems for Sample Preparation and Detection of Respiratory Pathogen Bordetella Pertussis, pp. 6302-6305.
 de la Rosa, Carlos Univ. of Calgary
 Prakash, Ranjit U of C
 Tilley, Peter A. U of C
 Fox, Julie D. U of C
 Kaler, Karan V.I.S. Univ. of Calgary

08:45-09:00 SuA06.2

Low Power Laser Induced Microfluidic Mixing through Localized Surface Plasmon, pp. 6306-6309.
 Miao, Xiaoyu Univ. of Washington
 Wilson, Ben Univ. of Washington
 Lin, Lih Yuan Univ. of Washington

09:00-09:15		SuA06.3
Selecting an Electrode Structure for Cell Sorting by Differential Dielectric Affinity , pp. 6310-6313.		
Frenea-Robin, Marie		UMR CNRS 5005
Laforet, Julie		Ec. Centrale de Lyon / Lab. Ampère
Robin, Gaël		Univ. Claude Bernard Lyon 1
Le Pioufle, Bruno		LIMMS CNRS-IIS,
NICOLAS, Laurent		CNRS - Ec. Centrale de Lyon
09:15-09:30		SuA06.4
An Innovative Opto-Sensing Workbench for Bio-Microfluidics Monitoring and Control , pp. 6314-6317.		
Bucolo, Maide		Univ. degli Studi di Catania
Fortuna, Luigi		Univ. of Catania
Sapuppo, Francesca		Univ. degli Studi di Catania
09:30-09:45		SuA06.5
Microfluidic Liquid Filters for Leukocyte Isolation , pp. 6318-6321.		
SooHoo, Jeffrey		NC State Univ. and UNC Chapel Hill
Walker, Glenn		North Carolina State Univ.
09:45-10:00		SuA06.6
Low Cost Production of Disposable Microfluidics by Blister Packaging Technology , pp. 6322-6325.		
Disch, Alexander		Univ. of Freiburg
Müller, Claas		Univ. of Freiburg
Reinecke, Holger		Univ. of Freiburg

SuA07 Bellecour 2

Modeling of Biological Systems I (Oral Session)

Chair: Demongeot, Jacques Lab. TIMC-IMAG, UMR CNRS 5525

08:30-08:45 SuA07.1

An Anatomically Based Finite Element Model of the Lower Limbs in the Seated Posture, pp. 6326-6329.

Cox, Sarah Univ. of Auckland
Mithraratne, Kumar Univ. of Auckland
Smith, Nicolas Univ. of Auckland

08:45-09:00 SuA07.2

Modeling Transport of Interstitial Potassium in Regional Myocardial Ischemia: Effect on the Injury Current, pp. 6330-6333.

Potse, Mark Univ. de Montréal
Coronel, Ruben Acad. Medical Center, Univ. of Amsterdam
LeBlanc, A.-Robert Univ. de Montréal
Vinet, Alain Univ. de Montréal

09:00-09:15 SuA07.3

Influence of Intermittent Compression Cuff Design on Calf Deformation: Computational Results, pp. 6334-6337.

Narracott, Andrew James Univ. of Sheffield
John, Gareth William Cardiff Univ.
Hose, David R. Univ. of Sheffield
Morris, Rhys John Univ. Hospital of Wales
Woodcock, John P Cardiff Univ.
Lawford, Patricia Veronica Univ. of Sheffield

09:15-09:30 SuA07.4

Primitive Genome and RNA Relics, pp. 6338-6342.

Demongeot, Jacques Lab. TIMC-IMAG, UMR CNRS 5525

09:30-09:45 SuA07.5

MANTIS: A Data Mining Methodology for Effective Translation Initiation Site Prediction, pp. 6343-6347.

Tzani, George Aristotle Univ. of Thessaloniki
Berberidis, Christos Aristotle Univ. of Thessaloniki
Vlahavas, Ioannis Aristotle Univ. of Thessaloniki

09:45-10:00 SuA07.6

Local Control of Temperature in a Theoretical Human Model of Selective Brain Cooling, pp. 6348-6351.

Neimark, Matthew Columbia Univ.
Konstas, Angelos-Arsteidis Columbia Univ.
Choi, Jae H. Columbia Univ.
Laine, Andrew Columbia Univ.
Pile-Spellman, John Columbia Univ.

SuA08 Gratte Ciel Lounge

Auditory and Visual Neuroprostheses I (Oral Session)

Chair: Szeto, Andrew San Diego State Univ.
Co-Chair: Suaning, Gregg The Univ. of Newcastle

08:30-08:45 SuA08.1

An Improved Speech Processor for Cochlear Implant Based on Active Nonlinear Model of Biological Cochlea, pp. 6352-6355.

Kim, Kyung Hwan Yonsei Univ.
Kim, Doo Hee Yonsei Univ.

08:45-09:00 SuA08.2

"RecognizeCane": The New Concept of a Cane Which Recognizes the Most Common Objects and Safety Clues, pp. 6356-6359.

Scherlen, Anne-Catherine ENISE
Dumas, Jean Claude ENISE
Guedj, Benjamin ENISE
Vignot, Alexandre ENISE

09:00-09:15		SuA08.3
RFID Based Indoor Navigational Aid for Persons with Severe Visual Impairments , pp. 6360-6363.		
Szeto, Andrew		San Diego State Univ.
SHARMA, SATISH		SAN DIEGO STATE Univ.
09:15-09:30		SuA08.4
A Non-Invasive Retinal Prosthesis - Testing the Concept , pp. 6364-6367.		
Nikolic, Konstantin		Imperial Coll. London
Grossman, Nir		Imperial Coll. London
Huang, Yan		Sir Leon Bagrit Centre
Drakakis, Emmanuel M.		Imperial Coll.
Toumazou, Christofer		Imperial Coll. London
Degenaar, Patrick		Imperial Coll. London
09:30-09:45		SuA08.5
Patterned Optical Activation of Retinal Ganglion Cells , pp. 6368-6370.		
Farah, Nairouz		Tech.
Reutsky, Inna		Tech. - Israel Inst. of Tech.
Shoham, Shy		Tech. Inst. of Tech.
09:45-10:00		SuA08.6
Intracortical Neural Interface for Prosthetic Applications , pp. 6371-6374.		
Ortmann, Valerij		NeuroConnex
Baziyan, Boris Kh.		Intitute of Neurology, Russian Acad. of Science

SuA09 Gratte Ciel 3

Image Registration I (Oral Session)

Chair: SARRY, Laurent Faculté de Médecine, Univ. d'Auvergne

Co-Chair: Boire, Jean-Yves INSERM

08:30-08:45 SuA09.1

Registration Algorithm for Statistical Bone Shape Reconstruction from Radiographs - an Accuracy Study, pp. 6375-6378.

Gollmer, Sebastian T. Univ. of Luebeck

Lachner, Rainer BrainLAB AG

Buzug, Thorsten M. Univ. of Luebeck

08:45-09:00 SuA09.2

Intra Subject 3D/3D Kidney Registration Using Local Mutual Information Maximization, pp. 6379-6382.

Tang, Hui Southeast Univ.

Dillenseger, Jean-Louis Univ. de Rennes 1

Luo, Limin Univ. of Southeast

09:00-09:15 SuA09.3

Registration of Sheep Brain MR Images for Cell Tracking Using Ferrite-Composite Micro-Beads As Markers, pp. 6383-6386.

Kim, Hyun Chung Kyung Hee Univ.

Han, Byung Hee Kyung Hee Univ.

Lee, Chun Hyung Kyung Hee Univ.

Lee, Soo Yeol Kyung Hee Univ.

09:15-09:30 SuA09.4

Evaluation of a Stochastic Approach to 2D-3D Intensity-Based Registration, pp. 6387-6390.

aojadi, souha Univ. Clermont1,WAID

SARRY, Laurent Faculté de Médecine, Univ. d'Auvergne

09:30-09:45 SuA09.5

A Hybrid Optimization Model Based on Multi-Metrics for Registration Using Free-Form Deformation, pp. 6391-6394.

Song, Jiasi Shanghai Jiaotong Univ.

Gu, Lixu Shanghai Jiaotong Univ.

Huang, Pengfei Shanghai Jiao Tong Univ.

Li, Wei Shanghai Jiaotong Univ.

Xu, Jianrong Renji Hospital, Medical School, Shanghaijiaotong Univ.

09:45-10:00 SuA09.6

Medical Image Registration Via Steerable Pyramid, pp. 6395-6398.

Wang, Xiu Ying The Univ. of Sydney

Feng, Dagan The Univ. of Sydney

SuA10 Rhône 1

Cellular and Tissue Engineering I (Oral Session)

Chair: Layton, Bradley E. Drexel Univ.

Co-Chair: Hulmes, David CNRS

08:30-08:45 SuA10.1

Tissue Engineering of the Cornea: Orthogonal Scaffold of Magnetically Aligned Collagen Lamellae for Corneal Stroma Reconstruction (I), pp. 6399-6399.

Torbet, James CNRS

Malbouyres, Marilynne CNRS

Builles, Nicolas Hospices Civils de Lyon

Justin, Virginie Hospices Civils de Lyon

Roulet, Muriel CNRS

Damour, Odile Hospices Civils de Lyon

Oldberg, Ake Univ. of Lund

Ruggiero, Florence CNRS

Hulmes, David CNRS

08:45-09:00		SuA10.2
Current Developments in Tissue Engineering of Nucleus Pulposus for the Treatment of Intervertebral Disc Degeneration , pp. 6400-6405.		
Sebastine, Immanuel Maria		Loughborough Univ.
Williams, David		Loughborough Univ.
09:00-09:15		SuA10.3
Artificial Vitreous Humor for in Vitro Experiments , pp. 6406-6409.		
Kummer, Michael		ETH Zurich
Abbott, Jake J.		ETH Zurich
Dinser, Sandro		ETH Zurich
Nelson, Bradley		ETH Zurich
09:15-09:30		SuA10.4
Enhanced in Vitro Culture of Human SAOS-2 Osteoblasts on a Sandblasted Titanium Surface Modified with Plastic Deformation , pp. 6410-6413.		
Fassina, Lorenzo		Univ. of Pavia
Saino, Enrica		Univ. of Pavia
Visai, Livia		Univ. of Pavia
Cusella De Angelis, Maria Gabriella		Univ. of Pavia
Benazzo, Francesco		Univ. of Pavia
Magenes, Giovanni		Univ. of Pavia
09:30-09:45		SuA10.5
Physically Enhanced Coating of a Titanium Plasma-Spray Surface with Human SAOS-2 Osteoblasts and Extracellular Matrix , pp. 6414-6417.		
Fassina, Lorenzo		Univ. of Pavia
Saino, Enrica		Univ. of Pavia
Visai, Livia		Univ. of Pavia
Magenes, Giovanni		Univ. of Pavia
09:45-10:00		SuA10.6
How Stiff and Thin Can an Engineered Extracellular Matrix Be? Modeling Molecular Forces at the Cell-Matrix Interface , pp. 6418-6420.		
Walton, Emily		MIT
Oommen, Binu		Massachusetts Inst. of Tech.
van Vliet, Krystyn		Massachusetts Inst. of Tech.

SuA11

Health Information Systems and Patient Records I (Oral Session)

Țețe d'Or 1

Chair: Chronaki, Catherine		Foundation for Res. and Tech. Hellas
Co-Chair: Beuscart, Régis		Univ. hospital of Lille
08:30-08:45		SuA11.1
Evaluation of Shared EHR Services in Primary Healthcare Centers and Their Rural Community Offices: The Twister Story , pp. 6421-6424.		
Chronaki, Catherine		Foundation for Res. and Tech. Hellas
Kontoyiannis, Vasilis		FORTH
Mytaras, Michalis		FORTH
Agourakis, Nektarios		FORTH
Kostomanolakis, Stavros		FORTH
Roumeliotaki, Theano		FORTH
Kavlentakis, George		FORTH
Chiarugi, Franco		FORTH
Tsiknakis, Emmanouil		Foundation for Res. and Tech. Hellas - FORTH
08:45-09:00		SuA11.2
Implementation Experience of a Patient Monitoring Solution Based on End-To-End Standards , pp. 6425-6428.		
Martínez Ruiz, Ignacio		Univ. of Zaragoza
Fernández Navajas, Julián		Aragon Inst. for Engineering Res. (I3A), Univ. of Z
Galarraga, Miguel		Public Univ. of Navarra
Serrano, Luis		Public Univ. of Navarra
de Toledo, Paula		Univ. Pol. de Madrid
Escayola, Javier		Univ. of Zaragoza
Jimenez-Fernandez, Silvia		Tech. Univ. of Madrid
Led, Santiago		Public Univ. of Navarra
Martínez-Espronedada, Miguel		Public Univ. of Navarra
García Moros, José		Univ. of Zaragoza
09:00-09:15		SuA11.3
A Grid PACS Architecture: Providing Data-Centric Applications through a Grid Infrastructure , pp. 6429-6433.		
Koutelakis, George		Univ. of Patras
Lympelopoulou, Dimitrios		Univ. of Patras
09:15-09:30		SuA11.4
Ontology Based Data Management Systems for Post-Genomic Clinical Trials within a European Grid Infrastructure for Cancer Research , pp. 6434-6437.		
Weiler, Gabriele		Fraunhofer Inst. for Biomedical Engineering
Brochhausen, Mathias		Saarland Univ.
Graf, Norbert		Univ. of the Saarland
Schera, Fatima		Fraunhofer Inst. for Biomedical Engineering
Hoppe, Alexander		Univ. Hospital of the Saarland
Kiefer, Stephan		Fraunhofer Inst. for Biomedical Engineering

09:30-09:45 SuA11.5
Integrating Global Data into Local Health Data Base, pp. 6438-6441.
 Patasiene, Irena Kaunas Univ. of Tech.
 Kregzdyte, Rima Kaunas Univ. of Medicine
 Patasius, Martynas Kaunas Univ. of Tech.
 Patasius, Juozas State Transport and Road Inst.
 Kazakeviciute, Agne Kaunas Univ. of Tech.

SuA12 Rhône 2
Micro-Nano-Bio Convergence Systems (MNBS): EC-Funded Group of Projects (Minisymposium)

Chair: Lymberis, Andreas European Commission
 Co-Chair: Neves, Herc IMEC
 Organizer: Lymberis, Andreas European Commission

08:30-08:45 SuA12.1

The NeuroProbes Project (I), pp. 6442-6444.
 Neves, Herc IMEC
 Ruther, Patrick Univ. of Freiburg

08:45-09:00 SuA12.2

Converging Micro-Nano-Bio-Information & Communication Technologies towards Integrated Systems: The Contribution of the EU Information Society Technologies Program (I), pp. 6445-6445.
 Lymberis, Andreas European Commission

09:00-09:15 SuA12.3

Lab-On-Chip for the Isolation and Characterization of Circulating Tumor Cells (I), pp. 6446-6448.
 Röser, Tina Inst. für Mikrotechnik Mainz GmbH
 Ritzl, Marion IMM
 Drese, Klaus Stefan Inst. für Mikrotechnik Mainz GmbH
 Laureyn, Wim IMEC
 Liu, Chengxun IMEC
 O' Sullivan, Ciara K. Univ. Rovira i Vir
 Ozalp, Veli C. Univ. Rovira i Virgili
 Fermér, Christian Fujirebio Diagnostics
 Nilsson, Olle Fujirebio Diagnostics
 Hauch, Siegfried AdnaGen AG
 Borgen, Elin The National Hospital-The Norwegian Radium Hospital, Univ.
 Nygren, Anders O.H. MRC-Holland

09:15-09:30 SuA12.4

Provision of Integrated Micro-Nanotechnologies Via Toolkits in the Europractice Service Project INTEGRAMplus (I), pp. 6449-6449.
 von Germar, Frithjof Inst. für Mikrotechnik Mainz GmbH
 Pickering, Christopher QinetiQ
 McNie, Mark QinetiQ Ltd
 Ryan, Tim Epigem Ltd
 Bosshard, Christian CSEM SA
 Schropfer, Gerold Coventor Sarl

09:30-09:45 SuA12.5

Fabric-Based Fluid Handling Platform with Integrated Analytical Capability (I), pp. 6450-6450.
 Coyle, Shirley DCU
 Wu, Yanzhe Dublin City Univ.
 Lau, King Tong Dublin City Univ.
 Wallace, Gordon Univ. of Wollongong
 Diamond, Dermot Dublin City Univ.

SuA13 Roseraie 1,2
Retinal Image Analysis I (Invited Session)

Chair: Ruggeri, Alfredo Univ. of Padova
 Co-Chair: MacGillivray, Thomas Univ. of Edinburgh
 Organizer: Ruggeri, Alfredo Univ. of Padova
 Organizer: Trucco, Emanuele Univ. of Dundee

08:30-08:45 SuA13.1

Detection of Blood Vessels in Fundus Images of the Retina Using Gabor Wavelets (I), pp. 6451-6454.
 Oloumi, Faraz SCHULICH School of Engineering, Univ. of Calgary
 Rangayyan, Raj Univ. of Calgary
 Oloumi, Foad SCHULICH School of Engineering, Univ. of Calgary
 Eshghzadeh-Zanjani, Peyman SCHULICH School of Engineering, Univ. of Calgary
 Ayres, Fabio Schulich School of Engineering, Univ. of Calgary

08:45-09:00 SuA13.2

Fractal Analysis of the Retinal Vascular Network in Fundus Images (I), pp. 6455-6458.
 MacGillivray, Thomas Univ. of Edinburgh
 Patton, Niall NHS Lothian Univ. Hospitals Div.
 Doubal, Fergus Univ. of Edinburgh
 Graham, Catriona Univ. of Edinburgh
 Wardlaw, Joanna Univ. of Edinburgh

09:00-09:15		SuA13.3
Model Based Investigation of Retinal Vessel Tortuosity As a Function of Blood Pressure: Preliminary Results (I) , pp. 6459-6462.		
Patasius, Martynas		Kaunas Univ. of Tech.
Marozas, Vaidotas		Kaunas Univ. of Tech.
Lukosevicius, Arunas		Kaunas Univ. of Tech.
Jegelevicius, Darius		Kaunas Univ. of Tech.
09:15-09:30		SuA13.4
An Automatic System for the Estimation of Generalized Arteriolar Narrowing in Retinal Images (I) , pp. 6463-6466.		
Ruggeri, Alfredo		Univ. of Padova
Grisan, Enrico		Univ. of Padova
De Luca, Massimo		Univ. of Padova
09:30-09:45		SuA13.5
Application of the Kohonen Network for Automatic Point Correspondence in Retinal Images (I) , pp. 6467-6470.		
MARKAKI, VASSILIKI		National Tech. Univ. of Athens
Asvestas, Pantelis		Inst. OF COMMUNICATION & COMPUTER SYSTEMS
MATSOPOULOS, GEORGE K		Inst. OF COMMUNICATION & COMPUTER SYSTEMS
Uzunoglu, Nikolaos		National Tech. Univ. of Athens
09:45-10:00		SuA13.6
Validation of Retinal Image Registration Algorithms by a Projective Imaging Distortion Model (I) , pp. 6471-6474.		
Lee, Sangyeol		The Univ. of Iowa, USA
Abramoff, Michael David		Univ. of Iowa
Reinhardt, Joseph		The Univ. of Iowa

SuB01 Gratte Ciel 1

Nonlinear Dynamic Analysis of Biomedical Signals III (Oral Session)

Chair: Westwick, David		Univ. of Calgary
10:30-10:45		SuB01.1
On the Identification of Hammerstein Systems with Time-Varying Parameters , pp. 6475-6478.		
Ikharia, Bashiru Isa		Univ. of Calgary
Westwick, David		Univ. of Calgary
10:45-11:00		SuB01.2
Modeling Anesthetic Drugs' Pharmacodynamic Interaction on the Bispectral Index of the EEG: The Influence of Heart Rate , pp. 6479-6482.		
Nunes, Catarina S		Faculdade de Ciencias da Univ. do Porto
Mendonça, Teresa		Faculdade de Ciências
Brás, Susana		Faculdade de Ciências da Univ. do Porto
Ferreira, David A		Univ. de Trás-os-Montes e Alto Douro
Amorim, Pedro		Hospital Geral de Santo António
11:00-11:15		SuB01.3
Dimensional Characterization of Anesthesia Dynamics in Reconstructed Embedding Space , pp. 6483-6486.		
Gifani, Payman		AmirKabir Univ. of Tech. , Sharif Univ.
Rabiee, Hamid Reza		Sharif U niversity of Tech.
Hashemi, Mohammad Reza		Amir Kabir Univ. of Tech.
Ghanbari, Mohammad		Univ. of ESSEX
11:15-11:30		SuB01.4
A New Method for Evaluating the Performance of Depth-Of-Hypnosis Indices - the D-Value , pp. 6487-6490.		
Lipping, Tarmo		Tampere Univ. of Tech.
Ferenets, Rain		Tampere Univ. of Tech. Pori
Struys, Michel		Ghent Univ. Hospital
Mortier, Eric		Ghent Univ.
11:30-11:45		SuB01.5
A Complete Strategy for Patient Un-Specific Detection of Epileptic Seizures Using Crude Estimations of Entropy , pp. 6491-6494.		
Varsavsky, Andrea		Melbourne Univ.
Mareels, Iven		Melbourne Univ.
11:45-12:00		SuB01.6
Higher Order Spectral(hos) Analysis of Epileptic Eeg Signals , pp. 6495-6498.		
Chua, Kuang Chua		Ngee Ann Pol.

SuB02 Gratte Ciel 2

PCA and ICA in Biomedical Signals III (Oral Session)

Chair: Fotiadis, Dimitrios I.		Univ. of Ioannina
10:30-10:45		SuB02.1
Extraction of the Atrial Activity from the ECG Based on Independent Component Analysis with Prior Knowledge of the Source Kurtosis Signs , pp. 6499-6502.		
Zaroso, Vicente		Univ. de Nice - CNRS
D'Asseler, Yves		Ghent Univ.
Lemahieu, Ignace		Ghent Univ.
Phlypo, Ronald		Ghent Univ.
10:45-11:00		SuB02.2
Ventricular Artifacts Cancellation from Atrial Epicardial Recordings in Atrial Tachyarrhythmias , pp. 6503-6506.		
Rieta, J. J.		Valencia Univ. of Tech.
Hornero, Fernando		General Univ. Hospital of Valencia
Alcaraz Martinez, Raul		Univ. of Castilla-La Mancha
Moratal, David		Univ. Pol. de València

11:00-11:15		SubB02.3
Maternal and Fetal Heart Rate Extraction from Abdominal Recordings Using Multi-Scale Principal Components Analysis , pp. 6507-6510.		
Karvounis, Evaggelos		Univ. of Ioannina
Fotiadis, Dimitrios I.		Univ. of Ioannina
11:15-11:30		SubB02.4
Principal Components Analysis Preprocessing to Reduce Controller Delays in Pattern Recognition Based Myoelectric Control , pp. 6511-6514.		
Hargrove, Levi		Univ. of New Brunswick
Scheme, Erik		Univ. of New Brunswick
Englehart, Kevin		Univ. of New Brunswick
Hudgins, Bernard		Univ. of New Brunswick
11:30-11:45		SubB02.5
Number of Sources Uncertainty in Blind Source Separation. Application to EMG Signal Processing , pp. 6515-6518.		
Snoussi, Hichem		UTT
Khanna, Saurabh		UTT
Hewson, David J		Univ. de Tech. de Troyes
Duchêne, Jacques		UTT
11:45-12:00		SubB02.6
A Classwise PCA-Based Recognition of Neural Data for Brain-Computer Interfaces , pp. 6519-6522.		
Das, Koel		Univ. of California, Irvine
Osechinskiy, Sergey		Univ. of California, Irvine
Nenadic, Zoran		Caltech
12:00-12:15		SubB02.7
Independent Component Analysis (ICA) Applied to Ultrasound Speckle Texture Analysis and Tissue Characterization , pp. 6523-6526.		
Di, Lai		Rochester Inst. of Tech.
Rao, Navalgund		Rochester Inst. of Tech.
Kuo, Chunghui		Eastman Kodak
Bhatt, Shweta		University of Rochester School of Medicine
Dogra, Vikram		Univ. of Rochester School of Medicine
SuB03		Bellecour 1
Biomedical Image Reconstruction (Oral Session)		
Co-Chair: Desbat, Laurent		Grenoble Univ. (UJF)
10:30-10:45		SubB03.1
Minimum Cross-Entropy Reconstruction of PET Images with Anatomically Based Anisotropic Median-Diffusion Filtering , pp. 6527-6530.		
Chan, Chung		Univ. of Sydney
Fulton, Roger		Univ. of Sydney
Cai, Tom		Univ. of Sydney
Feng, Dagan		The Univ. of Sydney
Meikle, Steven		Univ. of Sydney
10:45-11:00		SubB03.2
Parametric Blind Deconvolution for Confocal Laser Scanning Microscopy , pp. 6531-6534.		
Pankajakshan, Praveen		INRIA Sophia-Antipolis,
Zhang, Bo		Inst. Pasteur
Blanc-Feraud, Laure		INRIA/I3S
Kam, Zvi		Weizmann Inst. of Science,
Olivo-Marin, Jean-Christophe		Inst. Pasteur
Zerubia, Josiane		INRIA/I3S
11:00-11:15		SubB03.3
Volume Reconstruction Based on Non-Rigid Registration , pp. 6535-6538.		
bao, xudong		southeast Univ.
Xu, Danhua		southeast Univ.
Toumoulin, Christine		Univ. de Rennes I
Luo, Limin		Univ. of Southeast
11:15-11:30		SubB03.4
Reconstruction of Dynamic PET Data Using Spatio-Temporal Wavelet L1 Regularization , pp. 6539-6542.		
Verhaeghe, Jeroen		Ghent Univ.
Van De Ville, Dimitri		EPFL
Khalidov, Ildar		EPFL
Unser, Michael		EPFL
D'Asseler, Yves		Ghent Univ.
Lemahieu, Ignace		Ghent Univ.
11:30-11:45		SubB03.5
Cone-Beam Projection of a Deformable Volume for Motion Compensated Algebraic Reconstruction , pp. 6543-6546.		
Rit, Simon		Univ. Lumière Lyon 2
Sarrut, David		Léon Bérard anti-cancer center / CREATIS Lab.
11:45-12:00		SubB03.6
Assessment of PSF Modeling in PET AWOSEM Reconstruction , pp. 6547-6550.		
De Bernardi, Elisabetta		Pol. di Milano
Zito, Felicia		Ospedale Maggiore Pol. Mangiagalli e Regina Elena
Baselli, Giuseppe		Pol. di Milano

SuB04	Bellecour 3
Detection and Classification (Oral Session)	
Chair: Muñoz-Barrutia, Arrate	Centre for Applied Medical Res.
10:30-10:45	SuB04.1
Epiphysis and Metaphysis Extraction and Classification by Adaptive Thresholding and DoG Filtering for Automated Skeletal Bone Age Analysis , pp. 6551-6556.	
Giordano, Daniela	Univ. di Catania
Leonardi, Rosalia	Univ. of Catania
Maiorana, Francesco	Univ. of Catania
Scarciofalo, Giacomo	Univ. of Catania
Spampinato, Concetto	Univ. di Catania
10:45-11:00	SuB04.2
Spine Localization and Vertebral Mobility Analysis Using Faces Contours Detection , pp. 6557-6560.	
Benjelloun, Mohammed	Faculty of Engineering at Mons
Mahmoudi, Said	Faculty of Engineering of Mons
11:00-11:15	SuB04.3
Application of Lattice Boltzmann Method to Image Segmentation , pp. 6561-6564.	
Chen, Yu	Shanghai Univ.
Yan, Zhuangzhi	Shanghai Univ.
Shi, Jun	Shanghai Univ.
11:15-11:30	SuB04.4
Improving the Accuracy of Feature Extraction for Flexible Endoscope Calibration by Spatial Super Resolution , pp. 6565-6571.	
Rupp, Stephan	Fraunhofer Inst. for Integrated Circuits (IIS)
Winter, Christian	Univ. of Erlangen
Elter, Matthias	Fraunhofer Inst. for Integrated Circuits (IIS)
11:30-11:45	SuB04.5
Comparison of Segmentation Methods for Automatic Diagnosis of Dermoscopy Images , pp. 6572-6575.	
Mendonça, Teresa	Faculdade de Ciências
Marcal, Andre R. S.	Faculdade de Ciências, Univ. do Porto
Vieira, Angela	Faculdade de Ciências, Univ. do Porto
Nascimento, Jacinto	Inst. Superior Técnico
Silveira, Margarida	Inst. Superior Técnico
Marques, Jorge	Inst. Superior Tecnico and Inst.
Rozeira, Jorge	Hospital de Pedro Hispano
11:45-12:00	SuB04.6
A Color-Based Approach for Applying Automated Segmentation to Tumor Tissue Classification , pp. 6576-6579.	
Wang, Yi-Ying	National Cheng Kung Univ.
Chang, Shao-Chien	National Cheng Kung Univ.
Wu, Li-Wha	National Cheng Kung Univ.
Tsai, Sen-Tien	National Cheng Kung Univ. Hospital.
Sun, Yung-Nien	National Cheng Kung Univ.
SuB05	Tête d'Or Lounge
Implantable and Communicative Sensors, Electrodes, System Integration II (Oral Session)	
Chair: Delbeke, Jean	Univ. catholique de Louvain
10:30-10:45	SuB05.1
High Data-Rate 6.7 GHz Wireless ASIC Transmitter for Neural Prostheses , pp. 6580-6583.	
Chow, Eric	Purdue Univ.
Kahn, Adam	Purdue Univ.
Irazoqui, Pedro	Purdue Univ.
10:45-11:00	SuB05.2
Real-Time Software Platform Design for In-Vivo Navigation of a Small Ferromagnetic Device in a Swine Carotid Artery Using a Magnetic Resonance Imaging System , pp. 6584-6587.	
Chanu, Arnaud	Ec. Pol. de Montreal
Martel, Sylvain	Ec. Pol. de Montreal
11:00-11:15	SuB05.3
A Power-Efficient Communication System between Brain-Implantable Devices and External Computers , pp. 6588-6591.	
Yao, Ning	Univ. of Pittsburgh
Lee, Heung-no	Univ. of Pittsburgh
Chang, Cheng-Chun	Univ. of Pittsburgh
Sclabassi, Robert	Univ. of Pittsburgh
Sun, Mingui	Univ. of Pittsburgh
11:15-11:30	SuB05.4
Low Cost, Biocompatible Elastic and Conformable Electronic Technologies Using Mid in Stretchable Polymer , pp. 6592-6595.	
axisa, fabrice	IMEC
Bossuyt, Frederick	TFCG IMEC Ghent
11:30-11:45	SuB05.5
A Dual Band Wireless Power and FSK Data Telemetry for Biomedical Implants , pp. 6596-6599.	
Jung, Louis Hyunsuk	Univ. of New South Wales
Byrnes-Preston, Phil J.	The Univ. of New South Wales
Hessler, Roland	Univ. of New South Wales
Lehmann, Torsten	Univ. of New South Wales
Suaning, Gregg	The Univ. of Newcastle
Lovell, Nigel H	Univ. of New South Wales

11:45-12:00		SuB05.6
Wireless System for Monitoring Polymer Encapsulations , pp. 6600-6603.		
von Metzen, Rene Patrick		Univ. of Freiburg
Stieglitz, Thomas		Univ. of Freiburg
12:00-12:15		SuB05.7
A Microsystem Integration Platform Dedicated to Build Multi-Chip Neural Interfaces , pp. 6604-6607.		
Ayoub, Amer Elias		Ec. Pol. de Montreal
Gosselin, Benoit		Ec. Pol.
Sawan, Mohamad		Ec. Pol.

SuB06		Tête d'Or 2
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Nanomedicine, Bio-Nano Structures, Drug Delivery (Oral Session)		
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Co-Chair: Subramaniam, Vinod		Univ. of Twente
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10:30-10:45		SuB06.1
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Quantitative Characterization of Protein Nanostructures Using Atomic Force Microscopy , pp. 6608-6611.		
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Segers-Nolten, Ine		Univ. of Twente
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van der Werf, Kees		Univ. of Twente
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van Raaij, Martijn		Univ. of Twente
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Subramaniam, Vinod		Univ. of Twente
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10:45-11:00		SuB06.2
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Controlled Release Drug Coatings on Flexible Neural Probes , pp. 6612-6615.		
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Mercanzini, Andre		EPFL
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Bertsch, Arnaud		EPFL
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Renaud, Philippe		EPFL
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11:00-11:15		SuB06.3
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Micro-Molded Cannulae for Intracochlear Infusions in Small Rodents , pp. 6616-6619.		
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Johnson, Dean G.		Rochester Inst. of Tech.
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Zhu, Xiao Xia		Univ. of Rochester School of Medicine and Dentistry
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Frisina, Robert D.		Univ. of Rochester School of Medicine and Dentistry
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Borkholder, David A.		Rochester Inst. of Tech.
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11:15-11:30		SuB06.4
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Investigation of CNTs Interaction with Fibroblast Cells , pp. 6620-6623.		
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Pensabene, Virginia		Univ. di Genova, Italian Inst. of Tech.
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Vittorio, Orazio		Scuola Superiore Sant'Anna
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Raffa, Vittoria		Scuola Superiore Sant'Anna
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Menciassi, Arianna		Scuola Superiore Sant'Anna
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Dario, Paolo		Scuola Superiore Sant'Anna
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11:30-11:45		SuB06.5
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Using MPTMS As Permselective Membranes of Biosensors , pp. 6624-6627.		
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Yang, Yang Li		Chung Yuan Christian University
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Tseng, Ta-Feng		Chung Yuan Christian Univ.
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Lou, Shyhliang		Chung Yuan Christian Univ.
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SuB07		Bellecour 2
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Modeling and Computational Biology with Clinical Implications (Oral Session)		
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Chair: Pirogova, Elena		RMIT Univ.
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10:30-10:45		SuB07.1
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The "Oncosimulator": A Multilevel, Clinically Oriented Simulation System of Tumor Growth and Organism Response to Therapeutic Schemes towards the Clinical Evaluation of in Silico Oncology , pp. 6628-6631.		
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Stamatakis, Georgios		National Tech. Univ. of Athens
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Dionysiou, Dimitra		National Tech. Univ. of Athens
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Graf, Norbert		Univ.
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Sofra, Nikoletta		Imperial Coll. London
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Desmedt, Christine		Jules Bordet Inst.
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Hoppe, Alexander		Univ.
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Uzunoglu, Nikolaos		National Tech. Univ. of Athens
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Tsiknakis, Manolis		Foundation for Res. and Tech. Hellas - FORTH
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10:45-11:00		SuB07.2
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Practical Identifiability of Photophysical Parameters in Photodynamic Therapy , pp. 6632-6635.		
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Dobre, Simona		Nancy-Univ.
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Bastogne, Thierry		Nancy-Univ.
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Barberi-Heyob, Muriel		Nancy-Univ.
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Richard, Alain		Nancy-Univ.
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11:00-11:15		SuB07.3
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On the Accurate Modeling of a Complex Antenna for Breast Tumor Detection Using a Hybrid MOM/FDTD Approach , pp. 6636-6639.		
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Padhi, Shantanu		EMI Centre, Univ. of Queensland
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Liu, Feng		The Univ. of Queensland
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Li, Bing Keong		The Univ. of Queensland
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Shuley, Nick		Univ. of Queensland
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Crozier, Stuart		The Univ. of Queensland
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11:15-11:30		SuB07.4
Modelling the Mechanical Properties of Human Skin: Towards a 3D Discrete Fibre Model , pp. 6640-6643.		
Jor, Jessica		Univ. of Auckland
Nash, Martyn		Univ. of Auckland
Nielsen, Poul		Univ. of Auckland
Hunter, Peter		Univ. of Auckland
11:30-11:45		SuB07.5
Simulating T-Wave Parameters of Local Extracellular Electrograms with a Whole-Heart Bidomain Reaction-Diffusion Model: Size Matters! , pp. 6644-6647.		
Potse, Mark		Univ. de Montréal
Coronel, Ruben	Acad. Medical Center, Univ. of Amsterdam	
Ophthof, Tobias		Acad. Medical Center
Vinet, Alain		Univ. de Montréal
11:45-12:00		SuB07.6
SAPHIR - a Multi-Scale, Multi-Resolution Modeling Environment Targeting Blood Pressure Regulation and Fluid Homeostasis , pp. 6648-6651.		
Thomas, S. Randall		CNRS FRE 2873
Abdulhay, Enas		Univ. Joseph Fourier
Bacconnier, Pierre		Univ. Joseph Fourier
Fontecave Jallon, Julie		Univ. Joseph Fourier
FRANCOISE, Jean-Pierre		Univ. P.-M. Curie, Paris6
Guillaud, François		INSERM
Hannaert, P.		Inserm E0324
Hernández, Alfredo I		INSERM U642 LTSI.
Le Rolle, Virginie		Univ. of Rennes 1
Mazière, Pierre		Univ. of Evry
tahi, fariza		Univ. of Evry
Zehraoui, Farida		Evry Val d'Essonnes Univ. IBISC Lab.
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SuB08		Gratte Ciel Lounge
Neuromodulation I - Brain Stimulation (Oral Session)		
Chair: Durand, Dominique		Case Western Res. Univ.
Co-Chair: Veltink, Peter		Univ. of Twente
10:30-10:45		SuB08.1
High-Permeability Core Coils for Transcranial Magnetic Stimulation of Deep Brain Regions , pp. 6652-6655.		
Salvador, Ricardo	Faculty of Science, Univ. of Lisbon, Inst. of Biophysics	
Miranda, Pedro	Faculty of Science, Univ. of Lisbon	
Roth, Yiftach	Sheba Medical Center	
Zangen, Abraham	The Weizmann Inst. of Science	
10:45-11:00		SuB08.2
The Activation Function of TMS on a Finite Element Model of a Cortical Sulcus , pp. 6656-6659.		
Silva, Sofia	Faculty of Science, Univ. of Lisbon	
Basser, Peter	NIH	
Miranda, Pedro	Faculty of Science, Univ. of Lisbon	
11:00-11:15		SuB08.3
Enhancement of Information Transmission with Stochastic Resonance in Hippocampal CA1 Neuron Models: Effects of Noise Input Location , pp. 6660-6663.		
Kawaguchi, Minato		Kanto Gakuin Univ.
Mino, Hiroyuki		Kanto Gakuin Univ.
Durand, Dominique		Case Western Res. Univ.
11:15-11:30		SuB08.4
Effect of L-Dopa and Subthalamic Nucleus Stimulation on Arm and Leg Swing During Gait in Parkinson's Disease , pp. 6664-6667.		
Carpinella, Ilaria	Foundation Don Carlo Gnocchi Onlus	
Crenna, Paolo	Univ. of Milan	
Marzegan, Alberto	Univ. of Milan	
Rabuffetti, Marco	Foundation Don Carlo Gnocchi Onlus	
Rizzone, Mario	Univ. of Turin	
Lopiano, Leonardo	Univ. of Turin	
Ferrarin, Maurizio	Foundation Don Carlo Gnocchi Onlus	
11:30-11:45		SuB08.5
Fundamental Electrical Quantities in Deep Brain Stimulation: Influence of Domain Dimensions and Boundary Conditions , pp. 6668-6671.		
Liberti, Micaela	ICEMB@La Sapienza Univ. Rome	
Apollonio, Francesca	ICEMB@La Sapienza Univ. Rome	
Paffi, Alessandra	ICEMB@La Sapienza Univ. Rome	
Parazzini, Marta	CNR	
Maggio, Fernando	ICEMB@La Sapienza Univ. Rome	
Novellino, Tommaso	Campus biomedico	
Ravazzani, Paolo	CNR	
D'Inzeo, Guglielmo	ICEMB@"La Sapienza" Univ.	

SuB09		Gratte Ciel 3
Minisymposium: Heart-Rate Variability in Extreme Environments (Minisymposium)		
Chair: Di Rienzo, Marco		Fondazione Don Carlo Gnocchi
10:30-10:45		SuB09.1
Cardiovascular Function and Gravity Transitions During Parabolic Flight (I) , pp. 6672-6673.		
Aubert, Andre		KULeuven
Beckers, Frank		Univ. Hospital Gasthuisberg, K.U.Leuven
Liu, Jiexin		KULeuven
Verheyden, Bart		KULeuven
Cockuyt, Kurt		Univ. Hosp Gasthuisberg
10:45-11:00		SuB09.2
Analysis of Heart Rate Variability Using Time-Varying Frequency Bands Based on Respiratory Frequency (I) , pp. 6674-6677.		
Bailon, Raquel		Univ. of Zaragoza
Laguna, Pablo		Zaragoza Univ.
Mainardi, Luca		Pol. di Milano
Sornmo, Leif		Lund Univ.
11:00-11:15		SuB09.3
Heart Rate and Cardiovascular Variability at High Altitude (I) , pp. 6678-6680.		
Bernardi, Luciano		Univ. of Pavia
11:15-11:30		SuB09.4
Heart Rate Monitoring and Control in Altered Gravity Conditions (I) , pp. 6681-6684.		
Di Rienzo, Marco		Fondazione Don Carlo Gnocchi
Parati, Gianfranco		Istituto Auxologico Italiano
Rizzo, Francesco		Fondazione Don C. Gnocchi ONLUS
Meriggi, Paolo		Fondazione Don Gnocchi
Merati, Giampiero		Univ. of Milan
Faini, Andrea		Univ. degli Studi Milano-Bicocca
Castiglioni, Paolo		Fondazione Don Carlo Gnocchi ONLUS
SuB10		Rhône 1
Portable Micro-Nano Sensors and Integrated IT Systems in Ubiquitous Healthcare Delivery: Sleep Disorders and the EC-Funded SENSATION System (Invited Session)		
Chair: Maglaveras, Nikolaos		Aristotle Univ. of Thessaloniki
Organizer: Maglaveras, Nikolaos		Aristotle Univ. of Thessaloniki
10:30-10:45		SuB10.1
FFT Averaging of Multichannel BCG Signals from Bed Mattress Sensor to Improve Estimation of Heart Beat Interval (I) , pp. 6685-6688.		
Kortelainen, Juha Matti		VTT, Tech. Res. Center of Finland
Virkkala, Jussi		Finnish Inst. of Occupational Health
10:45-11:00		SuB10.2
ENOBIO Dry Electrophysiology Electrode; First Human Trial and Wireless Electrode System (I) , pp. 6689-6693.		
Ruffini, Giulio		Starlab Barcelona SL
Dunne, Stephen		Starlab Barcelona SL
Farrés, Esteve		Starlab Barcelona SL
Cester, Ivan		Starlab Barcelona SL
Watts, Paul C.P.		Univ. of Surrey
Silva, Ravi		Univ. of Surrey
Grau, Carles		Univ. of Barcelona
Fuentemilla, Lluís		Univ. of Barcelona
Marco, Josep		Univ. of Barcelona
Vandecasteele, Bjorn		IMEC
11:00-11:15		SuB10.3
Insomnia Treatment Assessment Based on Physiological Data Analysis (I) , pp. 6694-6696.		
Chouvarda, Ioanna		Aristotle Univ.
Papadelis, Christos		Aristotle Univ. of Thessaloniki
Domis, Nathalie		FORENAP
Staner, Luc		FORENAP
Maglaveras, Nikolaos		Aristotle Univ. of Thessaloniki
11:15-11:30		SuB10.4
Combination of Multiple Light Paths in Pulse Oximetry: The Finger Ring Example (I) , pp. 6697-6698.		
Sola, Josep		Swiss Center for Electr & Micro
Olivier, Chételat		CSEM
11:30-11:45		SuB10.5
Physiological Indicators Based Sleep Onset Prediction for the Avoidance of Driving Accidents (I) , pp. 6699-6704.		
Damousis, Ioannis		Centre for Res. and Tech. Hellas
Cester, Ivan		Starlab Barcelona SL
Nikolaou, Stella		Centre for Res. and Tech. Hellas
Tzouvaras, Dimitrios		Centre for Res. and Tech. Hellas

SuB11		Tețe d'Or 1
Health Information Systems and Patient Records II (Oral Session)		
Chair: Puentes, John		INSERM - GET ENST Bretagne
Co-Chair: Coatrieux, Gouenou		ENST Bretagne - Inserm
10:30-10:45		SuB11.1
DicomWorks Teleradiology: Secure Transmission of Medical Images Over the Internet at Low Cost , pp. 6705-6708.		
PUECH, Philippe		INSERM U703
Chazard, Emmanuel		Lille Univ. Hospital
Lemaître, Laurent		Univ. hospital of Lille
Beuscart, Régis		Univ. hospital of Lille
10:45-11:00		SuB11.2
Proposal of an ISO/IEEE11073 Platform for Healthcare Telemonitoring: Plug-And-Play Solution with New Use Cases , pp. 6709-6712.		
Galarraga, Miguel		Public Univ. of Navarra
Martínez Ruiz, Ignacio		Univ. of Zaragoza
Serrano, Luis		Public Univ. of Navarra
de Toledo, Paula		Univ. Pol. de Madrid
Escayola, Javier		Univ. of Zaragoza
Fernández Navajas, Julián		Aragon Inst. for Engineering Res. (I3A), Univ. of Z
Jimenez-Fernandez, Silvia		Tech. Univ. of Madrid
Led, Santiago		Public Univ. of Navarra
Martínez-Espronedada, Miguel		Public Univ. of Navarra
Viruete Navarro, Eduardo Antonio		Aragon Inst. of Engineering Res. (I3A), Univ. Zar
García Moros, José		Univ. of Zaragoza
11:00-11:15		SuB11.3
Implementation of the Relay Server for the Ubiquitous Integrated Biotelemetry System for Emergency Care (UIBSEC) Based on 3.5G HSDPA Technology , pp. 6713-6716.		
Jung, Min Yang		Seoul National Univ.
Kang, Jaemin		Seoul National Univ.
Shin, Il Hyung		Seoul National Univ.
Koo, Yoonseo		Seoul National Univ.
Suh, Gil Joon		Seoul National Univ. Hospital
Kim, Hee Chan		Seoul National Univ.
11:15-11:30		SuB11.4
Using Zigbee to Integrate Medical Devices , pp. 6717-6720.		
Frehill, Paul		National Univ. of Ireland Galway
Chambers, Des		National Univ. of Ireland Galway
Rotariu, Cosmin		National Univ. of Ireland Galway
11:30-11:45		SuB11.5
Probability of Interference between LP-LDC and LBT MICS Implants in a Medical Care Facility , pp. 6721-6725.		
Sutton, Brian		Biotronik
Stadnik, Paul		Biotronik
Nelson, Jim		Biotronik
Stotts, Larry		Biotronik
11:45-12:00		SuB11.6
Development of an Electronic Medical Report Delivery System to 3G GSM Mobile (Cellular) Phones for a Medical Imaging Department , pp. 6726-6729.		
Lim, Eugene Yusuk		Royal Prince Alfred Hospital
Feng, Dagan		The Univ. of Sydney
Cai, Tom		Univ. of Sydney

SuB12		Rhône 2
Education for Biomedical Engineering Professionals – Crossing Boundaries between Disciplines II (Minisymposium)		
Chair: Simpson, David Martin		Univ. of Southampton
10:30-10:45		SuB12.1
Education in Biomedical Engineering – Crossing Professional and National Boundaries (I) , pp. 6730-6730.		
Simpson, David Martin		Univ. of Southampton

SuB13		Roseiraie 1,2
Retinal Image Analysis II (Invited Session)		
Chair: Ruggeri, Alfredo		Univ. of Padova
Co-Chair: Trucco, Emanuele		Univ. of Dundee
Organizer: Ruggeri, Alfredo		Univ. of Padova
10:30-10:45		SuB13.1
Model Based Retinal Analysis for Retinopathy Detection , pp. 6731-6734.		
D'Antoni, Roberto		Univ. of Padua
De Giusti, Andrea		Univ. of Padua
10:45-11:00		SuB13.2
Segmentation of Candidate Dark Lesions in Fundus Images Based on Local Thresholding and Colour Density (I) , pp. 6735-6738.		
Grisan, Enrico		Univ. of Padova
Ruggeri, Alfredo		Univ. of Padova

11:00-11:15

SuB13.3

Contextual Detection of Ischemic Regions in Ultra-Wide-Field-Of-View Retinal Fluorescein Angiograms (I), pp. 6739-6742.

Trucco, Emanuele
Buchanan, Colin
Aslam, Tariq
Dhillon, Baljean

Univ. of Dundee
Heriot-Watt Univ.
Univ. of Edinburgh
Princess Alexandra Eye Pavilion

11:15-11:30

SuB13.4

A Probabilistic Framework for Content-Based Diagnosis of Retinal Disease (I), pp. 6743-6746.

Tobin, Kenneth
Abdelrahman, Mohamed
Chaum, Edward
Govindasamy, V. Priya
Karnowski, Thomas

Oak Ridge National Lab.
Tennessee Tech. Univ.
Univ. of Tennessee Hamilton Eye Inst.
Oak Ridge National Lab.
Oak Ridge National Lab.

11:30-11:45

SuB13.5

Three-Dimensional Reconstruction of Optic Nerve Head from Stereo Fundus Images and Its Quantitative Estimation, pp. 6747-6750.

Nakagawa, Toshiaki
Hayashi, Yoshinori
Hatanaka, Yuji
Aoyama, Akira
Hara, Takeshi
Fujita, Akihiro
Kakogawa, Masakatsu
Fujita, Hiroshi
Yamamoto, Tetsuya

Gifu Univ.
TAK CO., LTD.
Gifu National Coll. of Tech.
Gifu Univ. Graduate School of Medicine
Gifu Univ. Graduate Sch of Medicine
Kowa Co. Ltd.
TAK CO., LTD.
Gifu Univ.
Gifu Univ.

11:45-12:00

SuB13.6

Translation Histogram Based Hierarchical Algorithm for 3-D Optic Nerve Head Modeling (I), pp. 6751-6754.

Xu, Juan
Ishikawa, Hiroshi
Wollstein, Gadi
Schuman, Joel S.

Univ. of Pittsburgh
Univ. of Pittsburgh School of Medicine
Univ. of Pittsburgh School of Medicine
Univ. of Pittsburgh School of Medicine