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Nigel Lovell

Editor in Chief for Conference Editorial Board and VP for Conferences, EMBS

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D'Angelo, Lorenzo Tancredi	Ezenwa, Bertram	Georga, Eleni I.	Hayes, Jer
D'Avenio, Giuseppe	Faes, Luca	Georgakis, Apostolos	Hayn, Dieter
D'Inzeo, Guglielmo	Faezipour, Miad	Georgiou, Julius	He, Jiping
da Rocha, Adson F.	Fakhry, Morkos		

He, Renjie	Jacot, Jeffrey G	Khmelniskii, Artem	Lee, Sang Wook
He, Tiancheng	Jaffrezic-Renault, Nicole	Khoo, Michael	Lee, Seulki
Hedin, Daniel	James, Christopher	Khraiche, Massoud	Lee, Shuenn-Yuh
Hedjazi Moghari, Mehdi	Jané, Raimon	Kiguchi, Kazuo	lee, sungon
Hegadi, Ravindra	Jansen, Bart	Kikkawa, Sho	Lee, Won Hee
Hekman, Edsko	Jaramillo Garzón, Jorge Alberto	Kikuchi, Takehito	Leeb, Robert
Heldt, Thomas	Jayaraman, Sundaresan	Kim, Dae-Seung	Lei, Xu
Heller, Richard	Jean Christophe, Nebel	Kim, Desok	Leistritz, Lutz
Hemm, Simone	Jelinek, Herbert Franz	Kim, Hyejung	Leitgeb, Rainer A.
Hemzal, Dusan	Jennane, Rachid	Kim, Hyun Keol	LeMoynes, Robert
Heneghan, Conor	Jensen, Erik Weber	Kim, Jinman	Leppanen, Olli
Henriques, Jorge	Jensen, Winnie	Kim, Keun Ho	Leroux, Paul
Heo, Min-Suk	Jeong, In cheol	Kim, Sanggyun	Levy, Pierre
Herman, Pawel	Jhunjhunwala, Priyavrat	Kim, Sohee	Lhotska, Lenka
Hernández, Alfredo I	Ji, Jim Xiuquan	Kim, Tae-Seong	Li, Bing Nan
Hernandez, Antonio	Jia, Wenyan	Kimura, Yuichi	Li, Changzhi
Hernandez, Macro	Jia, Zhiheng	King, Kevin	Li, Chunming
Hernandez-Matos, Enrique	Jiang, Ning	Knaflitz, Marco	Li, Gang
Herzog, Walter	Jimbo, Yasuhiko	Ko, Li-Wei	Li, Guanglin
Hevia-Montiel, Nidiyare	Jimenez-Alaniz, Juan Ramon	Ko, Seong Young	Li, Huan-Bang
Hey, Stefan	Jimenez-Gonzalez, Aida	Kobashi, Syoji	Li, Jintao
Higa, Hiroki	Jimenez-Morales, David	Kobayashi, Hiroshi	Li, John K.-J.
Higashi, Yuji	Jimeno-Yepes, Antonio Jose	Kobayashi, Tetsuya J.	Li, Le
Hillen, Brian	Jin, Zhanpeng	Kocycigit, Yucel	Li, Shuo
Hiroi, Noriko	Jo, Cheolwoo	Koehler, Sara	Li, Wen-Tyng
Ho, Cheng-Shiao	Jo, Javier Antonio	Kokuer, Munevver	Li, Will X. Y.
Ho, Gordon	Jo, Yunggho	Komandur, Sashidharan	Li, Xu
Hoffmann, Kenneth	Johansen, Peter	Komorowski, Dariusz, Waldemar	Li, Yingzi
Hoffmann, Klaus-Peter	Johnson, Michelle	Kondraske, George	Li, Zhan
Hofmann, Ulrich G.	Jones, Edward	Kong, Jun	Li, Zhenyu
Holobar, Ales	Jones, Richard D.	Koralek, Aaron	Li, Zhi-Yong
Holtzman, Megan	Jovanov, Emil	Kortelainen, Juha Matti	Lian, Jie
Honda, Yuichiro	Joye, Neil	Kortelainen, Jukka	Liao, Hongen
Horch, Kenneth	Juan, Lu	Kosa, Gabor	Liberati, Diego
Hori, Junichi	Juhola, Martti	Kostoglou, Kyriaki	Lien, Yu-An
Hornero, Roberto	Jung, Tzyy-Ping	Kota, Srinivas	Lim, Ik Soo
Horowitz, Justin	Jurak, Pavel	Koutkias, Vassilis	Lima, Carlos Manuel Gregorio Santos
Hradetzky, David	Jamsá, Timo	Kouzani, Abbas Z.	Lin, Chii-Wann
Hsiao, Min-Chi	Kadem, Lyes	Kovacs, Levente	Lin, Chin-Teng
Hsiao, Tzu-Chien	Kagiyama, Yoshiyuki	Kovács, Sándor J	Lin, Yingkan
Hu, Sijung	Kahya, Yasemin P.	Koyanagi, Ken'ichi	Lin, Zhuohua
Hu, Xiaoling	Kailas, Aravind	Kretowski, Marek	Lindecrantz, Kaj
Hu, Yong	Kaipainen, Kirsikka	Krishnan, Sridhar	Linte, Cristian A.
Huang, Chi-Fang	Kaji, Hirokazu	Kroll, Mark	Lithgow, Brian
Huang, Felix	Kamaruddin, Norhaslinda	Kruggel, Frithjof	Lithgow, Brian John
Huang, Lei	Kamath, Vidya	Krupa, Alexandre	Liu, Chenguang
Huang, Weimin	Kamel, Nidal	Kubo, Hirotsugu	Liu, Fange
Huang, Yanping	Kameneva, Tatiana	Kugiumtzis, Dimitris	Liu, Feng
Hudgins, Bernard	Kamiya, Atsunori	Kuhn, Michael	Liu, Hao
Hudson, Donna L	Kanoh, Shin'ichiro	Kumamoto, Etsuko	Liu, Huafeng
Hughes, Glen	Kant Kumar, Dinesh	Kurita, Yuichi	Liu, Jianbo
Hui, Benedict	Kaplan, Alan D.	Kurnaz, Mehmet Nadir	Liu, Jianguo
Huo, Xueliang	Kar, Saptarshi	Kuroda, Tomohiro	Liu, Tian
Hussain, Hanaa	Karampinos, Dimitrios	Kursun, Olcay	Liu, Xin
hyttinen, jari	Karanasiou, Irene	Kurugollu, Fatih	Liu, Yinan
Iadanza, Ernesto	Karavatselou, Evy	Kuzmanic Skelin, Ana	Liu, Yipeng
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Igual Garcia, Jorge	Karnowski, Thomas	Lackovic, Igor	López-Larraz, Eduardo
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Ikarashi, Akira	Kashif, Faisal	Lai, Nicola	lorussi, federico
Ilbay, Gul	Katehakis, Dimitrios	Lai, Tze Huei, Daniel	Lou, Bin
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Ishikawa, Akihiro	Kenney, Laurence	Lazareck, Lisa Joanna	Lymberopoulos, Dimitrios
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Maglogiannis, Ilias	Molteni, Erika	Obeid, Iyad	Pinna, Gian Domenico
Magni, Paolo	Momose, Keiko	Ober, Raimund	Piovesan, Davide
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Mainardi, Luca	Monzon, Jorge E.	Ogata, Masato	Platzner, Dieter
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Maleckar, Mary	Moreno, Juan C.	Ohnishi, Kengo	Pohlmeyer, Eric A.
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Mancuso, Carlo	Morin, Evelyn	Okada, Jun-ichi	Poland, Michael
Marchal-Crespo, Laura	Morishima, Keisuke	Okada, Minoru	Polito, Salvatore
Marcos Martin, Jose Victor	Morley, John William	Okuhata, Hiroyuki	Pollonini, Luca
Marin, Thibault	Morozoff, Edmund	Okumura, Hiroshi	Pons, Jose Luis
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Marnane, Liam	Moslehpour, Mohsen	Oliveo-Marin, Jean-Christophe	Poon, Carmen CY
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Marque, Catherine	Motie Nasrabadi, Ali	Onofri, Leonardo	Pop, Petre Gavril
Marquez, Jorge Alberto	Motoi, Kosuke	Orini, Michele	Popescu, Mihail
Martel, Sylvain	Mougiakakou, Stavroula	Orsborn, Amy	Popovic, Dejan
Martin-Landrove, Miguel	Moussavi, Zahra	Orun, Ahmet	Popovic, Mirjana
Martinez, Angel	Moxon, Karen	Oshima, Toru	Porée, Fabienne
Martínez, Juan Pablo	Muehlsteff, Jens	Otero, Abraham	Porta, Alberto
Martinez-Licona, Fabiola	Mugler, Emily	Otto, Kevin	Positano, Vincenzo
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Masè, Michela	Muñoz-Diosdado, Alejandro	Paffi, Alessandra	Poza, Jesús
Masia, Lorenzo	Muragaki, Yoshihiro	Paglialonga, Alessia	Pradhan, Ranjan
Mason, David Glen	Muravchik, Carlos	Paiva, Antônio R. C.	Prasad, Punit
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Masuda, Kohji	Mustaffa, Izadora	Panagiotakopoulos, Theodor	Prasad, Girijesh
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Matsopoulos, George K	Myers, Matthew	Panousopoulou, Athanasia	Puentes, John
Matsuda, Tetsuya	Müller, Klaus-Robert	Pantelopoulos, Alexandros	Pun, Sio Hang
Matsumoto, Monica	Mynard, Jonathan	Paquit, Vincent	Parkka, Juha
Matteucci, Paul Brendan	Naemura, Kiyoshi	Paradiso, Rita	Qi, Feng
Mavoungou, Philippe	Nagamune, Kouki	Paralikar, Kunal	Qi, Jinyi
Mazzeo, Brian A.	Nagaoka, Takashi	Parent, David	Qian, Feng
Mazzoleni, Stefano	Naidu, D Subbaram	Park, Hyung-Soon	Qiu, Yihong
McDowell, Andrew	Naik, Ganesh R	Park, Jungyul	Quitadamo, Lucia Rita
McGrath, Michael James	Najafi, Bijan	Park, Kwang S.	Rabotti, Chiara
McGregor, Carolyn	Nakajima, Kazuki	Park, Paul K. J.	Radenovic, Aleksandra
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Meigal, Alexander	Nakamura, Toru	Parsaei, Hossein	Raj, Ashish
Meigas, Kalju	Nakao, Mitsuyuki	Pasquier, David	Rajadhyaksha, Milind
Meishan, Lin	Narasimhan, Seetharam	Passariello, Gianfranco	Rajaraman, Swami
Melendez-Calderon, Alejandro	Narayanan, Michael Ravi	Patel, Shyamal	Rajasekaran, Sanguthevar
Mello, Carlos	Narracott, Andrew James	Patriciu, Alexandru	Ramachandran, Bharat.
Melo, Marco	Nash, Martyn	Patrick, Erin	Ramaswamy, Palaniappan
Menciassi, Arianna	Nasserolelami, Bahman	Patterson, Matt	Ramat, Stefano
Mendes, Paulo M.	Nau, William	Pattichis, Constantinos	Ranganathan, Rajiv
Mendez, Martin Oswaldo	Naveed, Hammad	Pattichis, Marios	Rangayyan, Raj
Meng, Ellis	Nazeran, Homayoun	Pattini, Linda	Ranta, Radu
Meraz, Erika	Negahdar, MJ	Patton, James (Jim)	Reato, Davide
Meriaudeau, Fabrice	Neves, Herc	Paul Chaudhuri, Buddhadev	Redmond, Stephen James
Merilahti, Juho Markus	Nezami Ranjbar, Mohammad	Payne, Stephen John	Reed, Kyle
Mesbah, Mostefa	Nguyen, Anthony	Pearlman, Paul C	Reid Bush, Tamara
Meste, Olivier	Nguyen, Hung T.	Pécreaux, Jacques	Reni, Gianluigi
Meunier, Jean	Nguyen, Jordan Son	Pedoto, Gilda	Rentschler, Mark
Micera, Silvestro	Nguyen, Quynh	Peixoto, Nathalia	Reumann, Matthias
Michmizos, Kostis P.	Nguyen, Thanh	Peltier, Scott James	Reuss, James
Migeotte, Pierre-François	Nguyen, Thanh Hai	Penders, Julien	Rezatofighi, Seyed Hamid
Mihaylova, Lyudmila	Nguyen, Xuan Vinh	Peng, Yahui	Rezzoug, Nasser
Mijovic, Bogdan	Nickerson, David Phillip	Penzel, Thomas	Ricotti, Leonardo
Miled, Amine	Nicolaou, Nicoletta	Perera, Alexandre	Rieta, J. J.
Milosevic, Mladen	Nie, Kaibao	Peroni, Marta	Rigosa, Jacopo
Mincholé, Ana	Nielsen, Poul	Perperidis, Antonios	Riley, Zachary
Ming, Dong	Niemeijer, Meindert	Perreault, Eric	Rincon, Francisco
Miniati, Roberto	Nikita, Konstantina	Petelenz, Tomasz	Riviere, Cameron N
Mino, Hiroyuki	Nikolic, Konstantin	Peterchev, Angel V	Roa, Laura M.
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Mirfakhrai, Tissaphern	Nitta, Naotaka	Petroff, Neil	Rocha, Ana Paula
Mischi, Massimo	Nittono, Hiroshi	Petroni, Gianluigi	Rocon, Eduardo
Mitsis, Georgios D.	Noghalian, Sima	Petákoski-Hult, Tuula	Rodger, Damien C.
Moazzami, Kasra	Nollo, Giandomenico	Pham, Minh Tu	Rodriguez, Jose Felix
Moffitt, Richard A.	Nomura, Taishin	Pham, Tuan D.	Rodriguez y Baena, Ferdinando
Mogul, David	Noury, Norbert	Phlypo, Ronald	Rogers, Priscilla

Rojas, Mónica	Sharp, Ian	Sund, Torbjørn	Turcza, Pawel
Roosjakkens, Michael Johannes	Shastri, Dvijesh	Suresh, Nina	Tutak, Wojtek
Roqueiro, Damian	Shewokis, Patricia A	Suresh, Vinod	Tyrer, Harry
Rose, William C.	Shiina, Tsuyoshi	Sutton, Bradley P.	Uchiyama, Takanori
Rosenstein, Jacob	Shim, Eun Bo	Suzuki, Akane	Uematsu, Miyuki
Roullot, Elodie	Shimizu, Shuji	Suzuki, Osamu	Uemura, Kazunori
Rousseau, François	Shioyama, Takahiro	Swingen, Cory	Umapathy, Karthikeyan
Roux, Christian	Shiraiishi, Yasuyuki	Synnnes, Kåre	Ungureanu, G. Mihaela
Ruan, Su	Shirazi, Reza	Synnott, Jonathan	Vadakkumpadan, Fijoy
Rubel, Paul	Shirota, Camila	Taati, Babak	Vairavan, Srinivasan
Ruddy, Bryan	Shishido, Toshiaki	Taberner, Andrew	Valdes-cristerna, Raquel
Rufer, Libor	Shou, Guofa	Tadipatri, Vijay Aditya	Valencia Murillo, Jose Fernando
Ruggeri, Alfredo	Shroff, Sanjeev	Tafreshi, Reza	Valentinuzzi, Max E.
Ruiz Fernandez, Daniel	Shukla, Ashish	Tagawa, Norio	Valenza, Gaetano
Ruiz-Correa, Salvador	Shvartsman, Misha	Tagliamonte, Nevio Luigi	Valette, Sebastien
Ruther, Patrick	Sidky, Emil	Tahayori, Bahman	Vallverdu, Montserrat
Rutkowski, Tomasz	Signorini, Maria G.	Tahmasebi, Amir M.	van Gils, Mark
Rutten, Wim	Sikdar, Siddhartha	Takada, Hiroki	Van Veen, Barry
Ryan, Thomas	Silveira, Margarida	Takahashi, Kazutaka	Varghese, Lenny
Rybynok, Victor	Silvestri, Sergio	Takayama, Shuichi	Varghese, Tomy
S. F. R. Rodrigues, Suelia	Sima, Diana	Takeda, Sunao	Varon, Carolina
Saccomandi, Paola	Simon, Antoine	Takei, Osamu	Vecchiato, Giovanni
Sachse, Frank B.	Simpson, David Martin	Taki, Hirofumi	Vedantham, Srinivasan
Sahin, Ismet	Singh, V.R.	Takizawa, Kenichi	Velazquez, Ramiro
Sahin, Mesut	Sinha, Sitabhra	Talavage, Thomas	Veltink, Peter
Saijo, Yoshifumi	Sitti, Metin	Tam, Nicoladie	Ventouras, Errikos
Saitoh, Youichi	Situ, Ning	Tamura, Toshiyo	Verdu, Gumersindo
Sajda, Paul	Skadsberg, Nick	Tana, Maria Gabriella	Verdú, Gumersindo
Sakai, Koji	Skounakis, Emmanouil	Tanaka, Shinobu	Vereb, Gyorgy
Sakamoto, Ryota	Skubic, Marjorie	Tanaka, Takayuki	Verma, Nishant
Sakkalis, Vangelis	Slavens, Brooke	Tanaka, Yoshiyuki	Vernessi, Federico
Sala, Pilar	Sloane, Elliot B.	Tang, Meng-Xing	Ververidis, Dimitrios
Salazar Afanador, Addison	Slutzky, Marc	Tang, Wenlong	Vialatte, Francois
Salehghaffari, Shahabedin	Smith, David	Tangermann, Michael	Vidaurre, Carmen
Salgaonkar, Vasant	So, Kelvin	Tanskanen, Jarmo Mika Antero	Vides, Silvia
Salinari, Serenella	Soda, Paolo	Tarvainen, Mika	Vigmond, Edward
Salvado, Olivier	Sohn, Kwanghyun	Tathireddy, Prashant	Viik, Jari
Samitier, Josep	Sola, Josep	Tavakoli, Vahid	Villalba, Elena
Sampath, Shameem	Solà-Soler, Jordi	Tavakolian, Kouhyar	Villani, Valeria
Samur, Evren	Song, Dong	Tavanapong, Wallapak	Villazana, Sergio
Sanchez, J. Miguel	Song, Sangha	Teixeira, Ana Rita	Vinagoni, Claudio
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Sánchez Secades, Luis Alonso	Sonnenborg, Finn Albert	Tenzer, Yaroslav	Vinnakota, Kalyan
Sandberg, Frida	Sornmo, Leif	Tereshchenko, Larisa	Visai, Livia
Sander-Thommes, Tilmann H.	Soulier, Fabien	Tewari, Shivendra	Viscor, Ivo
Sanei, Saeid	Sousa Santos, Beatriz	Thong, Tran	Visser, Huib
Sanguineti, Vittorio	Sovilj, Sinisa	Thongvigittanee, Saowapak	Viventi, Jonathan
Sankar, Viswanath	Spampinato, Concetto	Tian, Jie	Vo, Kiet Tuan
Sankaranarayanan, Meena	Spincemaille, Pascal	Tian, Wei	Vollero, Luca
Santos, Andres	Spyridonis, Fotios	Tice, Brock	Voss, Andreas
Sarrut, David	Spyropoulos, Basile	Tkacz, Ewaryst	Vozzi, Giovanni
Sassi, Roberto	Staib, Lawrence H.	Todo, Mitsugu	Vullers, Ruud
Sasso, magali	Stalidis, George	tognetti, alessandro	Vullings, Rik
Sauter-Starace, Fabien	Starosciak, Amy	Tognola, Gabriella	Vuong, Catherine
Sawan, Mohamad	Stefan, Koelsch	Tokuda, Takashi	Várri, Alpo
Sayadi, Omid	Stefanovska, Aneta	Tolonen, Antti	Waldert, Stephan
Sazonov, Edward	Stepp, Cara	Tome, Ana Maria	Walsh, Lorcan
Scaglione, Alessandro	Stewart, R. Malcolm	Tong, Kai Yu, Raymond	Walsh, Michael
Schaefer, Gerald	Stieglitz, Thomas	Tong, Shanbao	Waluyo, Agustinus Borgy
Scheffer, Cornie	Stokes, Todd	Tonomura, Wataru	Wan, Justin
Schiek, Michael	Stoyanov, Danail	Toppi, Jlenia	Wan Harun, Wan Abdul Rahman
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Schreier, Guenter	Struzik, Zbigniew R.	Torrado-Carvajal, Angel	Wang, Furui
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Scilingo, Enzo Pasquale	Su, Eileen Lee Ming	Torricelli, Diego	Wang, Haifeng
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Secoli, Riccardo	Suanning, Gregg	Toschi, Nicola	Wang, Kun
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Seip, Ralf	Suarez-Antola, Roberto	Tracey, Brian	Wang, May D.
Seker, Huseyin	Sugimachi, Masaru	Tran, Yvonne	Wang, Peng
Seo, Chi Hyung	Sugimoto, Chika	Traver, Vicente	Wang, Shouyan
Seo, Jong Mo	Sugimoto, Masahiro	Trenado, Carlos	Wang, Shutao
Seong, Jaehoon	Sugita, Norihiro	Tripoliti, Evanthia	Wang, Shyh-Hau
Seppänen, Tapio	Sugiura, Seiryō	Tropea, Peppino	Wang, Yijun
Sessa, Salvatore	Sulzer, James	Troy, John	Wang, Ziheng
Shaydnejad, Saeid	Summers, Ronald	Trucco, Emanuele	Warren, Steve
Shahhaidar, Ehsaneh	Sun, Guanghao	Tsalatsanis, Athanasios	Warrick, Philip A.
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Shamloo, Amir	Sun, Yajie	Tsukamoto, Sosuke	Weber, Ewald
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Wen, Lingfeng
Wendling, Fabrice
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Xu, Da
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Yambe, Tomoyuki
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Yasumuro, Yoshihiro
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Yeh, Chih-Kuang
Yetik, Imam Samil
Yi, WonJin
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Yoo, Paul
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You, Fusheng
Yousefi, Ali
Yu, Wenwei
Yuan, Han
Yuan, Yading
Yuwono, Mitchell
Yvert, Blaise
Zahlmann, Gudrun
Zanos, Theodoros
Zariffa, Jose
Zavaglia, Melissa
Zbreski, Adeline
Zecca, Massimiliano
Zemiti, Nabil
Zeng, Gengsheng Lawrence
Zequera Diaz, Martha Lucia
Zervakis, Michalis
Zhang, Aili
Zhang, Dingguo
Zhang, Guanqun
Zhang, Lei

Zhang, Qin
Zhang, Rong
Zhang, Shuai
Zhang, Songmao
Zhang, Yingchun
Zhang, Yong
Zhang, Zhuo
Zhao, Bo
Zhao, Jianhua
Zhao, Jichao
Zheng, Guoyan
Zhou, David
Zhou, Fengfeng
Zhou, Huiyu
Zhou, Jian
Zhou, Jinghao
Zhou, Kuan
Zhou, Xiang
Zhu, Fansan
Zhu, Hongjie, Matt
Zhu, Min
Zhu, Shanlan
Zhu, Xin
Zhu, Yuemin
Zollo, Loredana
Zoltowski, Mariusz, Leslaw
Zondervan, Danny
Zong, Wei
Zouridakis, George
Zrimec, Tatjana
Zuo, Wangmeng
Zwiggelaar, Reyer

Program Themes and Tracks

Theme 1: Biomedical Signal Processing

Theme Chairs

Riccardo Barbieri	Massachusetts Institute of Technology, USA
Sergio Cerutti	Politecnico di Milano, Italy
Yoshiharu Yamamoto	University of Tokyo, Japan
Kazuo Yana	Hosei University, Japan

Tracks and Track Chairs

Track 1.1 Time-Frequency and Time-Scale Analysis

Co-Chair	Anna M Bianchi	Politecnico di Milano, Italy
Co-Chair	Leif Sornmo	University of Lund, Sweden

Track 1.2 Signal Processing and Physiological System Modeling

Co-Chair	Kiyoshi Kotani	University of Tokyo, Japan
Co-Chair	Georgios Mitsis	University of Cyprus

Track 1.3 Nonlinear Dynamic Analysis of Biomedical Signals

Co-Chair	Ken Kiyono	Osaka University, Japan
Co-Chair	Maria G. Signorini	Politecnico di Milano, Italy

Track 1.4 Signal Pattern Classification

Co-Chair	Dimitris Fotiadis	University of Ioannina, Greece
Co-Chair	Shanbao Tong	Shanghai Jiao Tong University, China

Track 1.5 Connectivity, Directionality and Causality

Co-Chair	Fabio Babiloni	University of Rome "La Sapienza", Italy
Co-Chair	Ramakrishnan Mukkamala	Michigan State University, USA

Track 1.6 Adaptive and Parametric Filtering

Co-Chair	Olivier Meste	UNSA-CNRS, France
Co-Chair	Tohru Kiryu	Niigata University, Japan

Track 1.7 Neural Networks and Support Vector Machine Applied to Biomedical Signal Processing and Classification

Co-Chair	Rezaul K. Begg	Victoria University, Melbourne, Australia
Co-Chair	Mitsuyuki Nakao	Tohoku University, Sendai, Japan

Track 1.8 Coupling and Synchronizations

Co-Chair	Ki H Chon	Worcester Polytechnic Institute, USA
Co-Chair	Andreas Voss	University of Applied Sciences Jena, Germany

Track 1.9 Algorithms for Data Mining and Data Processing

Co-Chair	Hiroshi Tanaka	Tokyo Medical and Dental University
Co-Chair	Konstantina Nikita	National Technical University of Athens, Greece

Track 1.10 Principal Component Analysis and Independent Component Analysis

Co-Chair	Sabine van Huffel	University of Leuven, Belgium
Co-Chair	Vicente Zarzoso	Laboratoire d'Informatique, Signaux et Systemes de Sophia Antipolis, Nice, France

Theme 2: Biomedical Image and Image Processing

Theme Chairs

Andrew Laine	Columbia University, USA
Laura Astolfi	University of Rome Sapienza, Italy
Yuichi Kimura	National Institute of Radiological Sciences, Japan
Tsutomu Araki	Osaka University, Japan

Tracks and Track Chairs

Track 2.1 Magnetic Resonance Imaging

Chair Ed X. Wu The University of Hong Kong

Track 2.2 Ultrasound Imaging

Co-Chair Elisa Konofagou Columbia University
Co-Chair Kohji Masuda Tokyo University of Agriculture and Technology

Track 2.3 Optical Imaging and Microscopy

Co-Chair Andreas Hielscher Columbia University
Co-Chair Jean-Christophe Olivo-Marin Institut Pasteur

Track 2.4 X-ray, CT, PET, and SPECT

Co-Chair Tetsuya Yuasa Yamagata University, Japan
Co-Chair Xiaochuan Pan The University of Chicago

Track 2.5 Electrical Source and Impedance Imaging

Co-Chair Jyunichi Hori Niigata University
Co-Chair Yodchanan Wongsawat Mahidol University

Track 2.6 Image Reconstruction and Enhancement

Co-Chair Christian Roux Telecom Bretagne, France
Co-Chair Leslie Ying University at Buffalo, State University of New York

Track 2.7 Image Registration, Segmentation, Compression and Visualization

Co-Chair Elsa Angelini Telecom ParisTech
Co-Chair Sheena Xin Liu Philips Research North America

Track 2.8 Image Analysis and Classification

Co-Chair Lei Ding University of Oklahoma
Co-Chair Yuan Jing The Chinese University of Hong Kong

Track 2.9 Molecular, MEG, Infrared and Other Novel Imaging Modalities

Co-Chair Kyeong Min Kim Molecular Imaging Research Center, South Korea
Co-Chair Hiroshi Watabe Osaka University, Japan

Track 2.10 Computational Anatomy, and Computer-aided Diagnosis and Therapy

Co-Chair Yoshinobu Sato Osaka University, Japan
Co-Chair Kenji Suzuki The University of Chicago

Theme 3: Bioinstrumentation: Sensors, Micro, Nano and Wearable Technologies

Theme Chairs

Emil Jovanov	University of Alabama in Huntsville, USA
Naozo Sugimoto	Kyoto University, Japan
Tsuyoshi Shiina	Kyoto University, Japan

Track 3.1 Physical Sensors and Sensor Systems

Co-Chair	Qiao Lin	Columbia University, USA
Co-Chair	Kazusuke Maenaka	University of Hyogo

Track 3.2 Bioelectric Sensors

Co-Chair	Yasuhiko Jimbo	University of Tokyo
Co-Chair	Hojae Bae	Harvard Medical School, USA

Track 3.3 Biological and Chemical Sensors and Systems

Co-Chair	Yuji Murakami	Toyohashi University of Technology
Co-Chair	Jinwoo Choi	Louisiana State University, USA

Track 3.4 Physiological Monitoring: Instrumentation, Technology and Integrated Systems

Co-Chair	Shinobu Tanaka	Kanazawa University
Co-Chair	Greg Suaning	The University of New South Wales

Track 3.5 Implantable Technologies and Systems

Co-Chair	Philip Troyk	Illinois Institute of Technology
Co-Chair	Takafumi Suzuki	NICT

Track 3.6 Wearable Sensors Technology and Instrumentation

Co-Chair	Steve Warren	Kansas State University
Co-Chair	Takashi Watanabe	Tohoku University

Track 3.7 Integrated Wearable and Portable Systems

Co-Chair	Marco Di Rienzo	Polo Tecnologico - IRCCS Fondazione Don Carlo Gnocchi
Co-Chair	Satoru Nebuya	Kitasato University

Track 3.8 Microfluidics

Co-Chair	Michelle Khine	University of California, USA
Co-Chair	Takashi Yasuda	Kyushu Institute of Technology

Track 3.9 Nano-Bio Technology

Co-Chair	Andreas Lymberis	European Commission
Co-Chair	Yoichi Haga	Tohoku University

Track 3.10 MEMS/Micromachine for Drug Delivery Technology

Co-Chair	Utkan Demirci	Harvard Medical School
Co-Chair	Satoshi Konishi	Ritsumeikan University

Theme 4: Bioinformatics and Computational Biology; Systems Biology, Modeling Methodologies

Theme Chairs

May D. Wang Georgia Institute of Technology, USA
Taishin Nomura Osaka University, Japan

Tracks and Track Chairs

Track 4.1 Analysis of high-throughput systems biology data

Co-Chair May D. Wang Georgia Institute of Technology and Emory University
Co-Chair Hideo Matsuda Osaka University

Track 4.2 Computational Modeling of Tissue Pattern Formation and Regenerative Medicine

Co-Chair Qing Nie University of Illinois at Chicago, USA
Co-Chair Jie Liang University of Illinois at Chicago, USA
Co-Chair Lei Zhang Hong Kong City University

Track 4.3 Synthetic Control Systems in Biomedical Applications

Co-Chair Shinya Kuroda University of Tokyo
Co-Chair Mingqing Xu Shanghai Jiaotong University

Track 4.4 Systems Modeling for Therapeutics and Medical Decision Making

Co-Chair Taishin Nomura Osaka University
Co-Chair Rajesh Chowdhary Marshfield Clinic

Track 4.5 Model Building for Molecular, Cellular and Organ Levels

Co-Chair Akira Funahashi Keio University
Co-Chair Tetsuya J Kobayashi University of Tokyo

Track 4.6 Computational Modeling and Simulations in Biology, Physiology and Medicine

Chair Mitsuyuki Nakao Tohoku University

Track 4.7 Translational biomedical informatics for clinical applications

Co-Chair Mia Markey University of Texas at Austin, USA
Co-Chair Yutaka Fukuoka Kogakuin University

Theme 5: Cardiovascular and Respiratory Systems Engineering

Theme Chairs

Masaru Sugimachi National Cerebral and Cardiovascular Center, Japan
Michael Khoo University of Southern California, USA

Tracks and Track Chairs

Track 5.1 Cardiac Mechanics, Function, and Modeling

Co-Chair Roy Kerckhoffs University of California, USA

Co-Chair Mitsuo Umezu Waseda University

Track 5.2 Vascular Disease, Mechanics, and Hemodynamics

Chair Alberto P Avolio Macquarie Univ.

Track 5.3 Pulmonary and Critical Care

Co-Chair Kenji Shigemi Fukui University

Co-Chair Mohan Karunanithi The Australian E-Health Research Centre

Track 5.5 Cardiovascular and Pulmonary Modeling

Co-Chair Seiryu Sugiura University of Tokyo

Co-Chair Sanjeev Shroff University of Pittsburgh, USA

Track 5.6 Respiratory Mechanics and Control

Co-Chair Merryn Tawhai University of Auckland, New Zealand

Co-Chair Yoshitaka Oku Hyogo College of Medicine

Track 5.7 Cardiovascular and Pulmonary Signal Processing

Co-Chair Rama Mukkamara Michigan State University, USA

Co-Chair Yoshiyuki Asai Okinawa Institute of Science and Technology

Track 5.8 Cardiac Electrophysiology

Co-Chair Haruo Honjo Nagoya University

Co-Chair Natalia Trayanova Johns Hopkins University

Track 5.9 Cardiovascular Regulation

Co-Chair Dimitrios Georgakopoulo CVRx Inc.

Co-Chair Toru Kawada National Cardiovascular Research Center, Japan

Track 5.10 Sleep Disorders and Respiratory Engineering

Co-Chair Thomas Penzel University of Berlin - Charite Hospital

Co-Chair Shinichi Ando Kyushu University

Track 5.11 Cellular & Molecular Cardiorespiratory Engineering

Chair Keiji Naruse Okayama University

Theme 6: Neural Engineering, Neuromuscular Systems & Rehabilitation Engineering

Theme Chairs

Metin Akay	University of Houston, USA
Masaki Yoshida	Osaka Electro-Communication University, Japan
Sandro Mussa-Ivaldi	Northwestern University, USA
Gert Cauwenberghs	University of California San Diego, USA

Tracks and Track Chairs

Track 6.1 Neural Interfaces and Regeneration

Co-Chair	Dominique Durand	Case Western University, USA
Co-Chair	Ted Burger	University of Southern California
Co-Chair	Winnie Jensen	Center for Sensory-Motor Interaction
Co-Chair	Thomas Stieglitz	University of Freiburg

Track 6.2 Brain Machine Interface

Co-Chair	Nitish Thakor	Johns Hopkins University
Co-Chair	Jose Millan	Ecole Polytechnique Federale de Lausanne, Switzerland
Co-Chair	Shangkai Gao	Tsinghua University
Co-Chair	Yasuharu Koike	Tokyo Institute of Technology

Track 6.3 Motor NeuroProstheses

Co-Chair	Jose Carmena	University of California - Berkeley, USA
Co-Chair	Justin Sanchez	University of Miami, USA
Co-Chair	Dario Farina	Bernstein Center for Computational Neuroscience, University Medical Center Göttingen
Co-Chair	Takanori Uchiyama	Keio University

Track 6.4 Sensory Neuroprostheses

Co-Chair	Douglas Weber	University of Pittsburgh, USA
Co-Chair	Jose Pons	Instituto de Automática Industrial
Co-Chair	Tetsuya Yagi	Osaka University

Track 6.5 Deep Brain Stimulation

Co-Chair	Minoru Osanai	Tohoku University
Co-Chair	Cameron McIntyre	Cleveland Clinic, USA
Co-Chair	Angel Peterchev	Duke University, USA

Track 6.6 Motor Learning, Neural Control and Neuromuscular Systems

Co-Chair	Eric Perrault	
Co-Chair	James Weiland	University of Southern California, USA
Co-Chair	Paolo Bonato	Harvard Medical School, USA

Track 6.7 Virtual Reality in Rehabilitation

Co-Chair	Michael Pavel	Oregon Health and Science University
Co-Chair	Holly Jimison	Oregon Health & Science University
Co-Chair	Rory Cooper	
Co-Chair	Kinya Fujita	Tokyo University of Agriculture & Technology

Track 6.8	Wearable Systems for Neurorehabilitation	
Chair	Hisao Oka	Okayama University
Track 6.9	Brain Physiology and Modeling	
Chair	Ichiro Fukumoto	Nagaoka University of Technology
Track 6.10	Neural signal processing	
Chair		
Track 6.11	Neural Disorders	
Co-Chair	Richard Jones	University of Canterbury, New Zealand
Co-Chair	Tim Dennison	Medtronic Inc., USA
Co-Chair	Richard Reilly	Trinity College Dublin
Track 6.12	Functional Brain Imaging	
Co-Chair	Fabio Babiloni	University of Rome
Co-Chair	George Zouridakis	University of Houston, USA
Co-Chair	Elsa Angelini	Ecole Nat. Superieure des Telecom

Theme 7: Molecular and Cellular Biomechanics, Tissue Engineering, Biomaterials

Theme Chairs

Taiji Adachi	Kyoto University, Japan
Ali Khademhosseini	Massachusetts Institute of Technology, USA

Tracks and Track Chairs

Track 7.1 Biomaterials Cell Interactions

Co-Chair	Masoud Agha	Virginia Tech, USA
Co-Chair	Masaru Tanaka	Yamagata University

Track 7.2 Scaffolds in Tissue Engineering

Co-Chair	Koichi Kato	Hiroshima University
Co-Chair	Michiya Matsusaki	Osaka University
Co-Chair	Juergen Groll	University of Würzburg

Track 7.3 Biomimetic, Bioinspired, and Patterned Biomaterials

Co-Chair	Michael Davis	Emory University, USA
Co-Chair	Satoru Kidoaki	Kyushu University
Co-Chair	Makoto Nakamura	Osaka University

Track 7.4 Cellular Force Transduction

Co-Chair	Wonmuk Hwang	Texas A&M University, USA
Co-Chair	Jeffrey Jacot	Rice University, USA
Co-Chair	Toshiro Ohashi	Hokkaido University
Co-Chair	James H-C Wang	University of Pittsburgh

Track 7.5 Embryonic and Stem Cells in Regenerative Medicine

Co-Chair	Takuya Matsumoto	Okayama University
Co-Chair	Masaya Yamamoto	Kyoto University
Co-Chair	Heung Soo Shin	Hanyang University
Co-Chair	Hae Won Kim	Dankook University

Track 7.6 Gene and Drug Delivery

Chair	Seungpyo Hong	University of Illinois at Chicago, USA
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Track 7.7 Electrical Fields at the Cell and Protein Scale

Co-Chair	Ebrahim Ghafar-Zadeh	University of California, USA
Co-Chair	Keisuke Morishima	Osaka University, Japan
Co-Chair	Junji Fukuda	Tsukuba University, Japan

Track 7.8 Biomaterials for Sensing and Actuation

Co-Chair	Utkan Demirci	Harvard University, USA
Co-Chair	Gargi Ghosh	University of Michigan-Dearborn, USA
Co-Chair	Shoji Takeuchi	The University of Tokyo

Track 7.9 BioMEMS/NEMS in Tissue Engineering and Biomaterials

Co-Chair	Jeff Borenstein	Draper Lab, USA
Co-Chair	Ryo Sudo	Keio University, Japan
Co-Chair	Esmail Jabbari	University of South California, USA

Track 7.10 Translational Issues in Tissue Engineering and Biomaterials

Co-Chair	Yunzhi Peter Yang	Stanford University, USA
Co-Chair	Kiyotaka Iwasaki	Waseda University, Japan
Co-Chair	Mitsugu Toda	Kyushu University, Japan

Theme 8: Bio-Robotics, Surgical Planning and Biomechanics

Theme Chairs

Silvestro Micera	Scuola Superiore Sant'Anna, Italy
James Patton	University of Illinois at Chicago, USA
Makoto Nokata	Ritsumeikan University, Japan

Tracks and Track Chairs

Track 8.1 Orthotic Biomechanics and Robotics

Chair Ken'ichi Koyanagi Toyama Prefectural University, Japan

Track 8.2 Prosthetic Biomechanics and Robotics: Artificial Organs/Limbs

Co-Chair Kiyoshi Naemura Tokyo University of Technology, Japan

Track 8.3 Rehabilitation Robotics and Biomechanics: Therapy, Assistance and Clinical Evaluation

Chair Kiyoshi Nagai Ritsumei University, Japan

Track 8.4 Human-Robot Interaction

Chair Marc Slutzky Northwestern University, USA

Track 8.5 Robot-aided Surgery

Chair Ryoichi Nakamura Chiba University, Japan

Track 8.6 Biologically Inspired Robotics and Micro-(bio)robotics

Chair Massimiliano Zecca Waseda University, Tokyo

Track 8.7 New Technologies and Methodologies in Medical Robotics and Biomechanics

Chair Justin Sanchez University of Miami, USA

Track 8.8 Neural Control of Movement and Robotics Applications

Chair José del R. Millán École Polytechnique Fédérale de Lausanne

Track 8.9 Applied Musculoskeletal Models and Human Movement Analysis

Chair Rajiv Dubey University of South Florida, USA

Theme 9: Therapeutic & Diagnostic Systems, Devices and Technologies, Clinical Engineering

Theme Chairs

Nicolas Chbat	Philips Research North America, USA
Dorin Panescu	Intuitive Surgical, Inc., USA
Tetsuya Matsuda	Kyoto University, Japan

Tracks and Track Chairs

Track 9.1 Clinical Engineering and Health Technology Management

Chair Elliot Sloane Drexel University/Villanova University, USA

Track 9.2 Diagnostic and Therapeutic Devices, Ambulatory, Home/Personal/Independent Living

Chair Sophia Zhou Philips Research, USA

Track 9.3 Diagnostic Devices and Instrumentation, General

Chair Javier Jo Texas A&M University, USA

Track 9.4 Therapeutic Devices and Systems

Chair Dan Dragomir-Daescu Mayo Clinic., USA

Track 9.5 Image-Guided Devices and Therapies

Chair John Zaleski Nuvon

Track 9.6 Medical Technology Design, Development, Manufacturing and Commercialization

Chair Dieter Haemmerich The Medical University of South Carolina, USA

Theme 10: Healthcare Information Systems, Telemedicine

Theme Chairs

Kwang S. Park	Seoul National University, Korea
Julien Penders	Imec, Netherlands
Tomohiro Kuroda	Kyoto University, Japan

Tracks and Track Chairs

Track 10.1 Hospital Information Systems

Co-Chair	Yasushi Matsumura	Osaka University, Japan
Co-Chair	Carmen Poon	Chinese University of Hong Kong
Co-Chair	Luke Sato	Harvard Medical School, USA
Co-Chair	Arvind Kumar	Harvard Medical School, USA

Track 10.2 Ambient Assisted Living, Smart Homes

Co-Chair	Kazuki Nakajima	Toyama University, Japan
Co-Chair	Youngjoon Chee	Ulsan University, Korea
Co-Chair	Petri Pulli	University of Oulu
Co-Chair	Steffan Leonhardt	Aachen University

Track 10.3 Telemedicine

Co-Chair	Kenta Hori	Gunma Prefectural College of Health Science, Japan
Co-Chair	Jeffrey Soar	University of Southern Queensland
Co-Chair	Joseph Cafazzo	University of Toronto, Canada
Co-Chair	Jarmo Reponen	University of Oulu

Track 10.4 EHR & PHR

Co-Chair	Hiroyuki Yoshihara	Kyoto University, Japan
Co-Chair	Jing-song Li	Zhejiang University
Co-Chair	Montserrat Robles	Polytechnic University of Valencia

Track 10.5 mHealth

Co-Chair	Haruo Noma	ATR, Japan
Co-Chair	Lei Wang	Shenzhen Institutes of Advanced Technology
Co-Chair	Emil Jovanov	University of Alabama in Huntsville, USA

Track 10.6 Health Information Processing

Co-Chair	Tadamasa Takemura	University of Hyogo, Japan
Co-Chair	Charles Safran	Harvard Medical School, USA
Co-Chair	Stephan Redmond	University of New South Wales
Co-Chair	Mark van Gils	VTT

Track 10.7 Point of Care

Co-Chair	Kenji Yamada	Osaka University, Japan
Co-Chair	Zhixiong Wang	University of Shanghai for Science and Technology
Co-Chair	S V Subramanian	Harvard School of Public Health, USA

Theme 11: Biomedical Engineering Education and Society

Theme Chairs

Hiroshi Hagiwara	Ritsumeikan University, Japan
Matthias Reumann	IBM Australia, Australia
Martha Zequera Diaz	Pontificia Universidad Javeriana, Columbia

Tracks and Track Chairs

Track 11.1 Biomedical Engineering Education and Curriculum

Chair Koichi Umimoto

Track 11.2 Career Development in Biomedical Engineering

Chair Shima Okada

Track 11.3 Biomedical Technology in Global Health

Chair Kiyoko Yokoyama

Track 11.4 Biomedical Undergraduate Research Projects

Chair Hiroshi Hagiwara

Theme 12: Healthcare Technologies in Major Disasters

Theme Chairs

Makoto Yoshizawa	Tohoku University, Japan
Tomoyuki Yambe	Tohoku University, Japan

Tracks and Track Chairs

Track 12.1 Logistics Strategy for Disaster Medical Care

Chair Tomoyuki Yambe Tohoku University, Japan

Track 12.2 Information and Communication Technology for Disaster Medicine

Co-Chair Takuo Suganuma Tohoku University, Sendai, Japan

Co-Chair Makoto Yoshizawa Tohoku University, Japan

Invited Session, Minisymposia & Special Session Organizers

Invited Sessions

Title	Organizer(s)	Affiliation
6th Invited Session on Ontologies for Biomedical Systems	Amandeep Sidhu	Curtin Univ.
Advanced State Space Methods for Analyzing Neurophysiological and Clinical Data	Zhe Chen	MIT
Arterial Hemodynamics I: Signal Processing	Ramakrishna Mukkamala	Michigan State Univ.
Arterial Hemodynamics: Measurement and Modeling	Ramakrishna Mukkamala	Michigan State Univ.
Auto-Bio-Lab (ABL) Technologies	Ebrahim Ghafar-Zadeh	York Univ., Toronto, Canada
Ballistocardiography and Seismocardiography: Towards an Assessment Out of the Laboratory Setting. Methods, Algorithms, Interpretation and Clinical Value PartI	Marco Di Rienzo Pierre-François Migeotte	Fondazione Don Carlo Gnocchi, Dept. of Biomedical Technology Royal Military Academy
Ballistocardiography and Seismocardiography: Towards an Assessment Out of the Laboratory Setting. Methods, Algorithms, Interpretation and Clinical Value Part II,	Marco Di Rienzo Pierre-François Migeotte	Fondazione Don Carlo Gnocchi, Dept. of Biomedical Technology Royal Military Academy
Biological Sensors and Systems for Diagnostics	Umut A. Gurkan, Ph.D.	Case Western Reserve Univ.
Biomechanics for Medical Robotics	Kiyoshi Naemura	Tokyo Univ. of Technology
Brain-Computer Interface: Clinical	Justin C. Sanchez	Univ. of Miami
Brain-Computer Interface: Rehabilitation	Chang Nam, Ph.D., CHFP	North Carolina State Univ.
Bringing Big Data to its Knees; Advances in Computational Discovery of Life-Saving Knowledge from Big Bio-medical Data I	Dr Huseyin Seker	Bio-Health Informatics Research Group, De Montfort Univ.
Bringing Big Data to its Knees; Advances in Computational Discovery of Life-Saving Knowledge from Big Bio-medical Data II	Dr Huseyin Seker	Bio-Health Informatics Research Group, De Montfort Univ.
Building Human Resources for Research, Innovation and Development of Medical Devices in Academia	Martha L. Zequera Díaz	Pontificia Univ. Javeriana
Clinical Neural Engineering	Justin C. Sanchez, Ph.D.	Univ. of Miami
Clinical Neurophysiology	Elizabeth Fehrmann	Medtronic, Inc.
Computational Anatomy for Computer-aided Diagnosis and Therapy	Hidetaka Arimura	Kyushu Univ.
Cutting Edge in Information Technology for Contribution to Society	Hiroki Takada	Univ. of Fukui
Development and Evaluation of Internal Artificial Organs	Tomoyuki Yambe	Tohoku Univ.
Electrical Fields in Tissue Engineering	Junji Fukuda	Univ. of Tsukuba
Electrical Source Imaging	Lei Ding Junichi Hori	Univ. of Oklahoma Niigata Univ.
Electronic Biointerfaces	Ebrahim Ghafar-Zadeh	York Univ., Toronto, Canada
Electronic DNA Detection, Self-Assembled Biomaterials	Ebrahim Ghafar-Zadeh	York Univ., Toronto, Canada
Electrophysiology Modeling of the Atria and Ventricles	Natalia A Trayanova	Johns Hopkins Univ.
Emerging BAN Technology and Healthcare M2M Services toward International Standardization	Shinsuke Hara	Graduate School of Engineering, Osaka City Univ., Japan
Entropy-based Analysis of Physiological Time Series	Luca Faes Alberto Porta	Univ. of Trento Univ. degli Studi di Milano
From Laboratory to Clinic: The Validation of Retinal Image Analysis Tools	Emanuele Trucco	Univ. of Dundee
Heart Rate Variability in Sleep Studies	Thomas Penzel	Charite Univ. Hospital, Sleep Medicine Center, Berlin, Germany
HeartCycle Next Generation of Telehealth Solutions	Harald Reiter	Philips Research Europe
Image-based Cytometry: Technology and Applications	Gustavo Kunde Rohde	Carnegie Mellon Univ.
Imaging and Signaling of Human Brain Functions	Yodchanan Wongsawat	Mahidol Univ.
Intelligent Orthosis and Wearable Robots for Healthcare (1)	Ken'ichi Koyanagi Toru Oshima	Toyama Prefectural Univ.
Intelligent Orthosis and Wearable Robots for Healthcare (2)	Ken'ichi Koyanagi; Toru Oshima	Toyama Prefectural Univ.
Knowledge Based Computer-aided Diagnosis Systems Using Soft Computing Approaches	Syoji Kobashi Kouki Nagamune	Univ. of Hyogo, Japan Univ. of Fukui, Japan
Measures of Complexity for Heart Rate Variability I & II	Zbigniew Struzik	RIKEN Brain Science Institute

Invited Sessions

Title	Organizer(s)	Affiliation
Motor Neuroprosthetics: Spikes and LFP	Jose Carmena	Univ. of California Berkeley
Multimodal Blind Source Separation: Algorithms, Applications and Future Challenges	Sabine Van Huffel Sergio Cerutti	Katholieke Univ. Leuven Politecnico di Milano
Multiscale Modeling and Analysis of the Uterine Electrophysiological Activity	Massimo Mischi Chiara Rabotti	Eindhoven Univ. of Technology
Neural Engineering in Speech and Hearing	Cara Stepp	Boston Univ.
Neural Prostheses for Exciting and Inhibiting Sensory Systems	Douglas Weber	Univ. of Pittsburgh
Quantitative Biology	Akira Funahashi	Keio Univ.
Stochastic Resonance in Nervous Systems	Hiroyuki Mino	Kanto Gakuin Univ.
Supporting Elderly People Living Independently Using Activities of Daily Living	Mohan Karunanithi	CSIRO
Use of Reduced and Distributed Models for Assessment of Cardiovascular Function	Alberto Avolio	Macquarie Univ., Sydney, Australia
Wearable Sensors and Body Area Sensor Networks for Activity Monitoring: Advances in Understanding of Human activity	Edward Sazonov	Univ. of Alabama
What Makes a Movement Human?	Derek Lura	Univ. of South Florida

Minisymposia

Title	Organizer(s)	Affiliation
A Potential Use of Data in EMR/EHR/PHR Systems Not for Only Clinical Use	Tadamasa Takemura	Graduate School of Applied Informatics, Univ. of Hyogo
Acquisition and Analysis Hard Ware of Vital Signs	Kazusuke Maenaka	Univ. of Hyogo
Advances in Neural Engineering	Metin Akay	Univ. of Houston
Analysis of the Baroreflex: Central, Cardiovascular and Renal Mechanisms	Dimitrios Georgakopoulos	CVRx Inc.
Artificial Organs for Metabolic Support the Most Challenging Problems *Endorsed by the European Society for Artificial Organs	Jan Wojcicki	Nalecz Institute of Biocybernetics and Biomedical Engineering, Polish Academy of Sciences
Brain Monitoring in Neurocritical Care	Thomas Heldt	Massachusetts Institute of Technology
Cardiovascular Modeling for Diagnostics, Therapy, and Design	Sanjeev G. Shroff, Seiryu Sugiura	Univ. of Pittsburgh Univ. of Tokyo
Cardiovascular Modeling for Scientific Inquiry	Sanjeev G. Shroff, Seiryu Sugiura	Univ. of Pittsburgh Univ. of Tokyo
Clinical Engineering Skills and Competencies	Koichi Umimoto	Osaka Electro Communication Univ.
Computational Modeling, Imaging, and Analysis of Liver Disease: Towards Highly Accurate Diagnosis and Quantification of Liver Fibrosis	Yoshinobu Sato	Osaka Univ. Graduate School of Medicine
Computer Assisted Medical Interventions	Philippe Cinquin	Joseph Fourier Univ. / CNRS
Dry and Non-contact Brain-machine-body Interfaces	Gert Cauwenberghs	Univ. of California, San Diego
Dysregulation of Breathing and Sleep: Modeling and Clinical Perspectives	Michael Khoo	Univ. of Southern California
EEG Monitoring Brought to Home: What Have We Achieved and The Road Forward	Julien Penders	Imec
EEG/MEG Instrumentation/Signal Processing	Ayumu Matani	Univ. of Tokyo
Electrical Stimulation Therapeutics for Neurorehabilitation	Toshiyasu Yamamoto	Okayama Univ. of Science
Electronic DNA Detection (2)	Ebrahim Ghafar-Zadeh	York Univ., Toronto, Canada
Embryonic and Stem Cells in Regenerative Medicine	Takuya Matsumoto Masaya Yamamoto Heungsoo Shin Hae-Won	Okayama Univ. Kyoto Univ. Hanyang Univ. Kim Donkook Univ.
Engineered biomaterials: biomimetic approaches and tissue engineering	Satoru Kidoaki	Inst. for Materials Chemistry and Engineering, Kyusyu Univ.
Enhancing Sensorimotor Integration and Postural Performance Through Advanced Technologies	Joyce Fung	McGill Univ.

Minisymposia

Title	Organizer(s)	Affiliation
Health Care Systems with Smart Bioinstrumentation and Health Checkups	Toshiyo Tamura	Osaka Electro-Communication Univ.
Information and Communication Technology for Disaster Medicine	Takuo Suganuma	Tohoku Univ.
Integrated Bio-Circuits for In Vivo and In Vitro Monitoring and Control of Biological Systems	Jun Ohta	Nara Institute of Science and Technology
Logistics Strategy for Disaster Medical Care	Tomoyuki Yambe	Tohoku Univ.
Mechanobiology in Cardio-Respiratory System	Keiji Naruse	Okayama Univ.
MEMS/Micromachine for DDS	Satoshi KONISHI	Ritsumeikan Univ., Japan
mHealth Review: The Mix of Mobile Platforms, IT, Databases and Cloud Computing, in Local and Global Health Care	Alex Casson	Imperial College London
Modeling and Simulation in Cardiovascular Surgery	Yagi Takanobu	Waseda Univ.
MR Sparse Sampling and Reconstruction	Dong Liang	Paul C. Lauterbur Research Centre for Biomedical Imaging, Shenzhen Institutes of Advanced Technology, China
Network Based Modelling of Brain Complexity	Zbigniew Struzik	RIKEN Brain Science Institute
Non-invasive Respiratory Monitoring for Sleep Disordered Breathing and Its Application	Shin-ichi Ando	Sleep Apnea Center, Kyushu Univ. Hospital
Novel Cell Manipulating Methods for Targeted Diagnosis and Therapy (Theragnosis)	Yuji Morimoto	National Defense Medical College, Japan
Pulmonary Hemodynamics and Function	Mohanraj Karunanithi	The Australian eHealth Research Centre
Recent Advances in Stochastic Modeling and Analysis of Biocomplexity	Patrice Abry Yoshiharu Yamamoto	CNRS, ENS Lyon, France Graduate School of Education at The Univ. of Tokyo, Japan
Remote Controlled Insect Biobots	Alper Bozkurt	North Carolina State Univ.
Remote Monitoring of Chronic Disease	Martha L. Zequera Diaz	Pontificia Univ. Javeriana - Ergosalud Ltda.
Robot Technology for Advanced Medicine and Healthcare	Massimiliano Zecca	Waseda Univ.
Robot-assisted and BMI-based Neurorehabilitation	Etienne Burdet	Imperial College London, UK
Round-up of Snapshots of Tele-medicine/Tele-care/Tele-rehabilitation and Their Economical and Legal Challenges	Masatsugu Tsuji	Graduate School of Applied Informatics, Univ. of Hyogo
Scaffolds in Tissue Engineering	Koichi Kato	Institute of Biomedical & Health Sciences, Hiroshima Univ.
Signal Processing for Bipolar Disorder	Yoshiharu Yamamoto	Univ. of Tokyo
Systems Health Care	Toshikazu Shiga Hiroshi Nakajima	Omron Healthcare Co., Ltd. Omron Corporation
Tissues/Organs on Chip	Ryo Sudo Esmail Jabbari	Keio Univ. Univ. of South Carolina
Ubiquitous Monitoring and Ambient Support for Daily Management of Long Term Health/Chronic Disease	Amol Waghlikar Wenxi Chen	The Australian e-Health Research Centre, CSIRO, Australia
Using IEEE 11073 Standards to Support Biomedical Engineering Research	Malcolm Clarke	Brunel Univ.

Special Sessions

Title	Organizer(s)	Affiliation
A Decade of Progress in Basic Research in Pulmonary Hypertension	Keiko Takihara Kohtaro Abe	Osaka Univ Kyushu Univ.
A Decade of Progress in Diagnostic Assessments and Treatments for Pulmonary Hypertension	Noriaki Emoto	Kobe Pharmaceutical Univ.
Advances for Diabetes in Japan - Flying to Biomedical Engineering from Physiology	Masatoshi Nomura Hideki Katagiri	Kyushu Univ. Tohoku Univ.
Advances in Neural Activity Monitoring Technology	Shiro Usui	Toyohashi Univ. of Tech.

Special Sessions

Title	Organizer(s)	Affiliation
Basic Understanding of Heart Failure, Present and Future	Tomomi Ide Daniel Raess	Kyushu Univ. Abiomed Inc.
Biomedical Innovations and Applied Business Network	Yukihisa Namiki	World Intellectual Property Holdings, Inc.
Clinical Evaluation of Arterial Stiffness with Cardio-Ankle Vascular Index	Takashi Kuwayama	Fukuda Denshi Co. Ltd
Computational Aspects of Human Motor Control	Taishin Nomura	Osaka Univ.
Computational Solutions to Large-scale Data Management and Analysis in Translational, Personalized and Predictive Medicine	Norbert Graf	Univ. Hospital of the Saarland
Development of Treatment for Severe Heart Failure, Transplant and Assist Devices	Mitsuaki Isobe	Tokyo Med & Dent Univ.
Device Therapies for Hypertension	Yoshitaka Hirooka Genjiro Kimura	Kyushu Univ. Asahi Rosai Hospital
Electronic Health Records of the Future: From A Data Repository to an Intelligent Work Flow Enabler	Luke Sato	Harvard Medical School
Hypertension - Pathophysiology and Therapy	Takuya Kishi	Kyushu Univ. Graduate School of Medical Sciences
Impact of Biological Clock on Medicine	Katsuya Hirano	Kyushu Univ.
Nanotechnology-Based Drug Delivery System for Diagnosis/Treatment of Cardiovascular Diseases	Kensuke Egashira	Kyushu Univ. Graduate School of Medical Sciences
Panasonic Presents Special Session: Meet the Experts of eHealth Projects	Tomohiro Kuroda Masatsugu Tsuji	Kyoto Univ Univ of Hyogo
Pathophysiology and Diagnosis of Atherosclerotic Cardiovascular Disease	Masayuki Yoshida Tetsuya Matoba	Tokyo Med & Dent Univ Kyushu Univ
Pathophysiology and Treatment of Abnormal Respiratory Regulation of Patients with Cardiovascular Disease	Ryuji Nohara, Taiki Higo	Kitano Hospital Kyushu Univ.
Patient-specific Modeling of the Cardiovascular System	Roy Kerckhoffs	Univ. of California San Diego
Percutaneous Coronary Intervention, Present and Future	Masaki Awata Tetsuya Matoba	Kansai Rosai Hospital Kyushu Univ.
Regulation of Cardiac Rhythm and Technology-Based Therapeutic Modalities of Cardiac Arrhythmias	Yasushi Mukai	Kyushu Univ.
Sleep and Higher-order Brain Functions	Mitsuyuki Nakao	Tohoku Univ
The Impact of Fukushima on Global Health; Lessons Learned from Man-made and Natural Disasters.	Luis Kun Ron Leder	Center for Hemispheric Defense Studies (CHDS) / NDU Univ. Nacional Autonoma de Mexico