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## Theme 1. Biomedical Signal Processing

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## Theme 2. Biomedical Imaging & Image Processing

Chairs: Andrew Laine (Columbia University, USA)  
Yi Wang (Cornell University, USA)  
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## Theme 3. Bioinstrumentation, Biosensors, and Bio-micro/nano Technologies

Chairs: Lihong Wang (Washington University, USA)  
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Ali Khademhosseini (Harvard University, USA)

## Theme 4. Bioinformatics, Computational Biology & Systems Biology

Chairs: Peter Hunter (University of Auckland, New Zealand)  
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Jie Liang (University of Illinois, Chicago, USA)

## Theme 5. Cardiovascular & Respiratory Systems Engineering

Chairs: Paul Iuzzo (University of Minnesota, USA)  
Kenji Sunagawa (Kyushu University, Japan)  
Kirk Shung (University of Southern California, USA)

## Theme 6. Neural & Rehabilitation Engineering

Chairs: Dominique Durand (Case Western Reserve University, USA)  
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Paolo Bonato (Harvard University, USA)

## Theme 7. Cellular & Tissue Engineering, & Biomaterials

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## Theme 8. Bio-Robotics & Biomechanics

Chairs: Jim Patton (University of Illinois at Chicago, USA)  
Victor Barocas (University of Minnesota, USA)  
Paolo Dario (University of Pisa, Italy)

## Theme 9. Therapeutic & Diagnostics Systems, & Medical Device Design

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## Theme 10. Healthcare Information Systems & Telemedicine

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## Theme II. Technology Commercialization, Industry, Education and Society

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## Theme 12. Recent Advancement in Biomedical Engineering

Chairs: Xingde Li (Johns Hopkins University, USA)  
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## Track 1.1 Time-Frequency and Time-Scale Analysis

Chairs: Yasemin P. Kahya (Bogazici University, Turkey)  
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## Track 1.2 Signal Processing and Physiological System Modeling

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## Track 1.3 Nonlinear Dynamic Analysis of Biomedical Signals

Chair: David T. Westwick (University of Calgary, Canada)

## Track 1.4 Signal Pattern Classification

Chairs: Dimitrios Fotiadis (University of Ioannina, Greece)  
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## Track 1.5 Principal Component Analysis and Independent Component Analysis

Chairs: Christopher J. James (University of Southampton, United Kingdom)  
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## Track 1.6 Adaptive and Parametric Filtering

Chairs: Ewaryst Tkacz (Silesian University of Technology, Poland)  
Shanbao Tong (Shanghai Jiao Tong University, China)

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

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Saeid Sanei (Cardiff University, United Kingdom)

## Track 1.8 Coupling and Synchronizations

Chair: Shangkai Gao (Tsinghua University, China)

## Track 1.9 Algorithms for Data Mining and Data Processing

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

Chairs: Mark Anastasio (Illinois Institute of Technology, USA)  
Chien-Min Kao (University of Chicago, USA)

## Track 2.5 Electrical Source, Impedance, Elasticity Imaging, and Other Modalities

Chairs: Lei Ding (University of Oklahoma, USA)  
Ryan Halter (Dartmouth College, USA)

## Track 2.6 Image Reconstruction and Retrieval

Chairs: Jong Chul Ye (Korea Advanced Institute of Science & Technology, Korea)  
Mathews Jacob (University of Rochester, USA)

**Track 2.7 Image Processing (Filtering, Enhancement, Segmentation, Registration, Classification, Compression, and Coding)**

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**Track 3.5 Wireless Sensors and Telemetry**

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**Track 3.6 Nano- and Micro-Sensors**

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#### **Track 4.6 Biological and Medical Data Management, Ontology, Mining, and Visualization**

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Daniel L. Rubin (Stanford University, USA)

#### **Track 4.7 Emerging Topics in Computational Bioinformatics and Systems Biology**

Chairs: Dan Beard (Medical College of Wisconsin, USA)  
May Wang (Georgia Institute of Technology, USA)

#### **Track 5.1 Cardiovascular Pulmonary Mechanics (Ventricular, Vascular, CFD)**

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#### **Track 5.2 Artificial Hearts and Ventricular Assist Devices (VAS, TAH, IABP, PCPS)**

Chair: James St. Louis (University of Minnesota, USA)

#### **Track 5.3 Cardiac Electrophysiology (Mapping, CRT, ICD, Ablation, Arrhythmias)**

Chairs: Nicholas Skadsberg (Medtronic, Inc., USA)  
Guanglin Li (Chinese Academy of Sciences, China)

#### **Track 5.4 Cardiovascular Pulmonary Regulation (Neurohumoral, HRV)**

Chair: Nicolas Chbat (Philips Research North America, USA)

#### **Track 5.5 Cardiovascular Pulmonary Imaging (Echo, CT, MR, CARTO, EnSite, Endoscope, Odyssey)**

Chair: Craig Hartley (Baylor College of Medicine, USA)

#### **Track 5.6 Cardiovascular Pulmonary Modeling (Computational)**

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#### **Track 5.7 Cardiopulmonary Resuscitation (in the ICU and EMT Settings)**

Chair: Keith Lurie (Advanced Circulatory Systems, Inc., USA)

#### **Track 5.8 Cardiovascular Signal Processing (ECG, BP, CO, Telemedicine, Smart House, Monitoring)**

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#### **Track 5.9 Heart-Brain Connections**

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#### **Track 5.10 Sleep Disorders and Respiratory Engineering (CSAS, OSAS etc)**

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#### **Track 12.4 Ultra-sensitive Biosensing Technologies**

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