

THEME	SESSION TITLE	ORGANIZER
Bioinformatics, Computational Biology and Systems Biology	Artificial Cognition and Learning Theories – Part I	Francois Christophe
Bioinformatics, Computational Biology and Systems Biology	Artificial Cognition and Learning Theories – Part II	Francois Christophe
Micro- and Nano-bioengineering	Special Session on Biomedical Robotics and Applications – Part I	Dayou Li and Zuobin Wang
Micro- and Nano-bioengineering	Special Session on Biomedical Robotics and Applications – Part II	Dayou Li and Zuobin Wang
Wearable and Implantable Systems	Implantable and Wearable Antennas, Sensors, and Systems for Wireless Medicine and Healthcare – Part I	Toni Björninen & Johanna Virkki
Wearable and Implantable Systems	Implantable and Wearable Antennas, Sensors, and Systems for Wireless Medicine and Healthcare – Part II	Toni Björninen & Johanna Virkki
Biophysics and Medical Physics	New Applications for Detection of Sleep-Disordered Breathing – Part I	Mirja Tenhunen
Biophysics and Medical Physics	New Applications for Detection of Sleep-Disordered Breathing – Part II	Mirja Tenhunen
Biosensing and Biosignal Analysis and Processing	New Developments on Beat-to-Beat Blood Pressure Measurement Technology	Josep Sola
Biosensing and Biosignal Analysis and Processing	Impedance Pneumography – Technology and Applications	Marcel Młyńczak
Biosensing and Biosignal Analysis and Processing	Impedance Cardiography – the Method and its Applications	Marcel Młyńczak
Biosensing and Biosignal Analysis and Processing	Advances in Bioimpedance Instrumentation and Measurement	Marcel Młyńczak

Biosensing and Biosignal Analysis and Processing	Novel Electrocardiogram Analysis Methods	Tuomas Kenttä
Bioimaging and Bioimage Analysis and Processing	Statistical and Bayesian Approaches in EEG/MEG Data Analysis – Part I	Sampsa Pursiainen
Bioimaging and Bioimage Analysis and Processing	Statistical and Bayesian Approaches in EEG/MEG Data Analysis – Part II	Sampsa Pursiainen
Virtual Physiological Human	Computational Modelling of Human Cardiac Cells	Stefano Severi
Personalized Medicine	The Contribution of Biomedical Engineering to the Understanding and Management of Atrial Fibrillation	Cristiana Corsi
Sleep Monitoring and Quantification	Sleep Monitoring and Quantification using Contact and Non-Contact Systems	Patrick Celka
Biomedical Optics	Biomedical Optics	Karin Wårdell
Biosensing and Biosignal Analysis and Processing	Recent Advances in Heart Rate Variability Analysis – Part I	Mika Tarvainen
Biosensing and Biosignal Analysis and Processing	Recent Advances in Heart Rate Variability Analysis – Part II	Mika Tarvainen
Clinical Engineering and Therapeutic and Diagnostic Systems	Advanced Monitoring at Hospital and at Home for Risk Analysis and Evidence-Based Clinical Decision Support	Kari Antila
Biosensing and Biosignal Analysis and Processing	Biosignals Interpretation – Part I	Kristjan Pilt
Biosensing and Biosignal Analysis and Processing	Biosignals Interpretation – Part II	Kristjan Pilt
Biophysics and Medical Physics	Electromagnetic Fields in Biology and Medicine: Magnetic Fields	Hiie Hinrikus

Biophysics and Medical Physics	Electromagnetic Fields in Biology and Medicine: Radiofrequency Radiation	Hiie Hinrikus
Biophysics and Medical Physics	Electromagnetic Fields in Biology and Medicine: Electric Field and Modelling	Hiie Hinrikus
Clinical Engineering and Therapeutic and Diagnostic Systems	Clinical Engineering Revisited: Towards a White Paper	Mario Medvedec
Biosensing and Biosignal Analysis and Processing	Advances in Ballistocardiography and Seismocardiography	Jari Viik
Healthcare Information Systems and Health Informatics	Data Based Analytics in Health care: From Sensors to Big Data	Ratko Magjarevic & Paulo de Carvalho
Translational Research and Commercialization	Translational Biomechanics and Imaging in Musculoskeletal Research	Petro Julkunen & Rami Korhonen
Biomedical Engineering Education & Society	Advances in Biomedical Engineering Education and Teaching	Goran Devedzic
Micro- and Nano-bioengineering	BioMEMS for Organ-on-Chip Applications	Pasi Kallio
Biomedical Engineering in Developing Countries	Biomedical Engineering in Africa	Timo Jämsä
Cooperation of Academia, Industry and Healthcare Sector	Fostering Cooperation of Academia, Industry and Healthcare Sector	Piotr Ladyzynski
Healthcare Information Systems and Health Informatics	Snapshot of Medical Informatics Research Projects in Japan and Poland	Piotr Ladyzynski
Biosensing and Biosignal Analysis and Processing	EEG-based Brain Function Monitoring in ICU and Clinical Anesthesia	Tarmo Lipping & Jukka Kortelainen

Clinical Engineering and Therapeutic and Diagnostic Systems	Advances in Transcranial Magnetic Stimulation	Jaakko Nieminen
Bioimaging and Bioimage Analysis and Processing	High Field Magnetic Resonance Imaging	Miika T Nieminen
Bioimaging and Bioimage Analysis and Processing	Ultra-low-field MRI	Risto Ilmoniemi
Health Technology Assesment	Early Stage Health Technology Assessment (HTA) of Medical Devices	Leandro Pecchia
Health Technology Assesment	Picking the Winner: How HTA of Medical Devices Can Help Identify Routes to a Sustainable Healthcare System	Dan Clark
Health Technology Assesment	Patient Involvement in HTA: Methods and Experiences	Leandro Pecchia
Biomaterials	Biomaterials and Tissue Engineering – Part I	Jonathan Massera & Teresa Calejo
Biomaterials	Biomaterials and Tissue Engineering – Part II	Jonathan Massera & Teresa Calejo
Clinical Engineering and Therapeutic and Diagnostic Systems	How Can Functional Electrical Stimulation Currently Support Movement Rehabilitation: Advanced Technology Meets Physiological Reality	Winfried Mayr & Matthias Krenn & Jose Luis Vargas Luna
	IFMBE-Sponsored Session on Accreditation of Biomedical Engineering Programs.	Siew Lok Toh
	EAMBES Special Session on BME Policy Affairs in EU	Jari Hyttinen