

MDBS-BHE 2017 Technical Program (June 27)

July 08 Saturday, at International Hall

Morning	Registration
Noon	Lunch (at Student Canteen)
<p style="text-align: center;">Afternoon 14:00-17:20</p> <p style="text-align: center;">Venue: International Hall</p>	<p><u>14:00-15:40 Special Session</u> Human Hemodynamics Modeling and Monitoring (Chair: Prof. LIU, Jia)</p> <p>1) <u>14:00-14:25 "Cerebral Autoregulation: The Challenge of Diversity"</u> Prof. SIMPSON, David (University of Southampton, UK)</p> <p>2) <u>14:25-14:50 "Numerical Simulation of Blood Flows in Human Arteries"</u> Prof. CAI, Xiaochuan (University of Colorado Boulder, USA)</p> <p>3) <u>14:50-15:15 "A Dynamic Contrast-enhanced MRI-based Data-driven Computational Technique for Early Detection of Chronic Liver Diseases"</u> Prof. HWANG, Fengnan (National Central University)</p> <p>4) <u>15:15-15:40 "4D Flow MRI and Its Applications"</u> Prof. LI, Rui (Tsinghua University, China)</p> <p><u>15:40-16:00 Tea Break</u></p> <p><u>16:00-16:40 Keynote 1</u> "Current Development of Wearable and Invisible Blood Pressure Monitor and Approach to the ISO Standards" Prof. Tamura, Toshiyo (Waseda University, Japan) (Chair: Prof. Li, Ye)</p> <p><u>16:40-17:20 Keynote 2</u> "Cardiovascular Health Informatics: Predicting the Risk of Stroke Based on Ultrasound Image Analysis of the Atherosclerotic Carotid Plaque" Prof. PATTICHIS, Constantinos S. (The University of Cyprus, Cyprus) (Chair: Prof. Li, Ye)</p>
Evening	<p>Welcome Reception (Ticket required) (18:00-19:30, at Guest House Restaurant, Floor 1, Guest House Building 1)</p>

July 09 Sunday, at Library Lecture Hall 110

<p>Morning 8:00-11:45</p> <p>Venue: Library Lecture Hall 110</p>	<p><u>8:00-8:30</u> Opening Ceremony (Chair: Prof. ZHANG, Yuanting) Group photo session</p> <p><u>8:30-9:10</u> Keynote 3 "Ultrafast MR Spectroscopic Imaging: A Path to High Spatiotemporal Resolution through Subspaces" Prof. LIANG, Zhipei (University of Illinois at Urbana Champaign, USA) (Chair: Prof. FOTIADIS, Dimitrios)</p> <p><u>09:10-09:50</u> Keynote 4 "Nanotechnology, Biomarkers, and Artificial Intelligence for Digital Health" Prof. NIE, Shuming (Emory University, USA) (Chair: Prof. FOTIADIS, Dimitrios)</p> <p><u>09:50-10:10</u> Tea Break</p> <p><u>10:10-10:50</u> Keynote 5 "From Technology-Driven to Application-Driven: Evolution and Innovation of Advanced X-ray Tomographic Imaging" Prof. PAN, Xiaochuan (The University of Chicago, USA) (Chair: Prof. FOTIADIS, Dimitrios)</p> <p><u>10:50-11:30</u> Keynote 6 "Micro Medical Robotics: Painless and Scarless" Prof. MENG, Qinghu (The Chinese University of Hong Kong, Hong Kong) (Chair: Prof. FOTIADIS, Dimitrios)</p> <p><u>11:30-11:45</u> Panel Discussion (Chairs: Prof. FOTIADIS, Dimitrios, and Prof. LIU, Xin)</p>
Noon	Lunch (at Student Canteen)
<p>Afternoon 14:00-18:10</p> <p>Venue: Library Lecture Hall 110</p>	<p><u>14:00-14:40</u> Keynote 7 "Brain Plasticity and Language Processing" Prof. TAN, Lihai (Shenzhen Institute of Neuroscience and Shenzhen University, China) (Chair: Prof. LI, Ye)</p> <p><u>14:40-15:20</u> Keynote 8 "Computational Challenges in Adaptive NeuroTechnologies for Discoveries and Findings" Prof. DING, Lei (University of Oklahoma, USA) (Chair: Prof. LI, Ye)</p> <p><u>15:20-15:40</u> Tea Break</p> <p><u>15:40-17:10</u> Student Paper Competition</p> <p>1) <u>15:40-15:55</u> "Multi-Joint Coordinated Upper Limb Training Assisted with a Neuromuscular Electrical Stimulation (NMES)-Robotic Arm in Early Stroke: A Pilot</p>

	<p>Study” QIAN, Qiuyang (The Hong Kong Polytechnic University)</p> <p>2) <u>15:55-16:10</u> “Continuous Blood Pressure Estimation Using Photoplethysmogram Relative Intensity Ratio” SHAO, Wenqi (Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences)</p> <p>3) <u>16:10-16:25</u> “Emotion Recognition Based on Decision Tree” WU, Ying (Habin Institute of Technology Shenzhen Graduate School)</p> <p>4) <u>16:25-16:40</u> “Gait Analysis Based on Ear-worn Wireless Motion Sensor” HAN, Tongmeng (Fudan University)</p> <p>5) <u>16:40-16:55</u> “Smartphone-based Non-contact Respiration Rate Detection Using Single-frequency Ultrasound Signal” WEI, Jing (Southern University of Science and Technology)</p> <p>6) <u>16:55-17:10</u> “Learning to Predict Blood Pressure with Deep Bidirectional LSTM Network” SU, Peng (The Chinese University of Hong Kong)</p> <p><u>17:10-18:10</u> Poster Session</p>
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Evening	<p>Banquet (Ticket required) (18:30-20:00, at Guest House Restaurant, Floor 1, Guest House Building 1)</p>
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July 10 Monday, at International Hall
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<p>Morning 8:30-11:30</p> <p>Venue: International Hall</p>	<p><u>8:30-9:10</u> Keynote 9 “Biomedical and Health Informatics for Outcome-Driven Personalized Health Care” Prof. WANG, Dongmei (Georgia Tech and Emory University, USA) (Chair: Dr. CHEN, Fei)</p> <p><u>9:10-9:50</u> Keynote 10 “Polarization Microscopy for Quantitative Assessment of Micro- and Macro-structure of Biological Specimen” Prof. MA, Hui (Graduate School at Shenzhen, Tsinghua University, China) (Chair: Dr. CHEN, Fei)</p> <p><u>9:50-10:10</u> Tea Break</p> <p><u>10:10-10:50</u> Keynote 11 “Multilevel Modeling Approaches of the Atherosclerotic Plaque Growth in Coronary Arteries and Carotids” Prof. FOTIADIS, Dimitrios (University of Ioannina, Greece) (Chair: Dr. CHEN, Fei)</p> <p><u>10:50-11:30</u> Keynote 12 “Convergence of Automation, Biomedical Engineering, and Health Informatics for Aging Society” Prof. PANG, Zhibo (ABB Corporate Research, Sweden) (Chair: Dr. CHEN, Fei)</p>
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Noon	Lunch (at Student Canteen)
Afternoon	City/Lab tour (from 14:00)

