The 13th IEEE-EMBS International Summer School and Symposium on Medical Devices and Biosensors (MDBS 2019)
in conjunction with
The 11th International School and Symposium on Biomedical and Health Engineering (BHE 2019)

Program

September 28 Saturday

Morning	<u>08:30-09:00</u> **Opening ceremony**
	
	<u>09:00-09:40</u> **Keynote 1** "From Technology-Driven to Application-Driven: Evolution and Innovation of Advanced X-ray Tomographic Imaging"
	
	    Prof. PAN, Xiaochuan (芝加哥大学)
	
	<u>09:40-10:20</u> **Keynote 2** "An AI Enabled Tele-rehabilitation System for ESD Stroke Patients"
	
	    Prof. FANG, Qiang (汕头大学)
	
	<u>10:20-10:40</u> **Tea break**
	
	<u>10:40-11:20</u> **Keynote 3** "Cardiovascular Health Engineering: Wearable SUPER-MINDS"
	
	    Prof. ZHANG, Yuan-Ting (香港城市大学)
	
	<u>11:20-12:00</u> **Keynote 4** "AI-Driven Healthcare"
	
	    Prof. CLIFTON, David (牛津大学)

Noon	**Lunch (12:00-14:00)**

Afternoon	<u>14:00-14:30</u> **Invited 1** "Healthcare 4.0: the new revolution in healthcare technologies powered by the fourth revolution of industry"
	
	    Prof. PANG, Zhi-bo (ABB Corporate Research, Västerås, Sweden)
	
	<u>14:30-15:00</u> **Invited 2** "Artificial tactile sensations through electrical stimulation"
	
	    Prof. SUI, Xiao-Hong (上海交通大学)
	
	<u>15:00-15:30</u> **Invited 3** "Wearable Sensing and Medical Big Data"
	
	    Prof. LI, Ye (中科院深圳先进技术研究院)
	
	<u>15:30-15:50</u> **Tea break**
	
	<u>15:50-16:10</u> **Ignite session for posters**
	
	<u>16:10-17:40</u> **Student paper competition**
	
	<u>17:40-18:20</u> **Poster viewing**

Evening	**Banquet (18:30-20:00)**

September 29 Sunday

Morning	<u>09:00-09:40</u> **Keynote 5** "Improving the Clinical Management of Neurological Conditions Using mHealth Technology" Prof. BONATO, Paolo (Harvard Medical School, USA)

	09:40-10:10 **Invited 4** "Intelligent Wellness Sensing" Prof. Prof. CHEN, Wei (复旦大学) 10:10-10:30 **Tea break** 10:30-11:00 **Invited 5** "Architecture of Palm Size Ultrasound Scanner and Its Applications" Prof. WU, Zhe (电子科技大学) 11:00-11:30 **Invited 6** "Large deformation diffeomorphic metric mapping based statistical shape analysis and its application to brain science" Prof. TANG, Xiao-Ying (南方科技大学) 11:30-12:00 **Invited 7** "Applications of deep-learning in magnetic resonance imaging" Prof. ZHANG, Tao (电子科技大学)
Noon	**Lunch (12:10-14:00)**
Afternoon	14:00-14:30 **Invited 8** "Neuroenhancement of emotion regulation" Prof. BECKER, Benjamin (电子科技大学) 14:30-15:00 **Invited 9** "A novel training-free externally-regulated neurofeedback system using phase-guided visual stimulation for alpha modulation" Prof. ZHANG, Zhi-Guo (深圳大学) 15:00-15:30 **Invited 10** "Flexible Sensing and Safer Human-Robot Collaboration" Prof. YANG, Geng (浙江大学) 15:30 Visit School of Life Science and Technology, University of Electronic Science and Technology of China

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Student Paper Competition Finalist

(September 28)

A Pilot Study on Auditory Brainstem Response induced by Sweep-tone Stimuli

16:10-16:25   Xin Wang (Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences)

A Deep Learning based Method for EEG Signal Classification with Small Datasets

16:25-16:40   Akshay Kumar (Royal Melbourne Institute of Technology University)

Intrafascicular vagal activity recording and analysis based on Carbon Nanotube yarn electrodes

16:40-16:55   J. Arranz (Shanghai Jiao Tong University)

Transfer Learning for Automatic Segmentation of the Cornea based on Ocular Staining Images

16:55-17:10   Junyan Lyu (Southern University of Science and Technology)

An Automatic Method to Differentiate Sleep Apnea Patients with and without Congestive Heart Failure using Polysomnography Records

17:10-17:25   Wenhui Chen (University of Technology Sydney)

Locating Cerebral Arteriovenous Malformation from Tof-MRA Images using Weighted Cross-plane Dilated Convolution

17:25-17:40   Baochang Zhang (Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences)