

2018国际生物医学信息感知与微系统大会

2018 International Conference of Biomedical Information Perception &
Microsystems (ICBIPM 2018)

June 13-15, 2018 Chengdu, China

Conference Hotel: Holiday Inn Chengdu High-Tech Center (No.1 Xixin Avenue, West Hi-Tech Development Zone, Chengdu, Sichuan, P.R. China 611731)

会议酒店：成都新希望高新中心假日酒店（成都高新西区西芯大道1号附1号）

Conference Venue: University of Electronic Science and Technology of China (UESTC), Qingshuihe Campus (No.2006, Xiyuan Ave. West Hi-Tech. Zone, Chengdu, Sichuan, P.R. China 611731)

会议地址：电子科技大学清水河校区（成都市高新西区西源大道2006号）

Room A: Auditorium, Electronic Science and Technology Research Institute, UESTC, Qingshuihe Campus

会议室A：电子科技大学清水河校区，电科院报告厅

Room B: Room 401, Zonghe Building, UESTC, Qingshuihe Campus

会议室B：电子科技大学清水河校区，综合楼401

Room C: Room 309, Zonghe Building, UESTC, Qingshuihe Campus

会议室C：电子科技大学清水河校区，综合楼309

ICBIPM2018 Conference Program

Day 1, Tuesday, June 12, 2018				
14:00-22:00	Arrival & Registration	Hotel Lobby	Holiday Inn	
18:30-21:30	Dinner (Small Hot Pot) 晚餐 (自助小火锅)	Brezz Cafe(1F) 浅川咖啡 (1楼)		
Day 2, Wednesday, June 13, 2018				
8:30	School Shuttle (From Hotel to UESTC)	Holiday Inn Parking lot 酒店停车场 (一楼大堂外)	Holiday Inn	
9:00-9:30	Opening Ceremony	Host: Jinhong Guo (郭劲宏)	Room A: Auditorium, ESTI, UESTC 会议室 A: 电子科技大学电科院报告厅	
	Welcome Speech by Conference Organizer	Speaker:***		
	Welcome Speech by Conference Chair	Speaker: Yuejun Kang (康跃军)		
Main Forum	Keynote Speeches Chair: Dongqing Li (李冬青)			
9:30-10:10	Dongqing Li (李冬青) University of Waterloo, Waterloo, Canada Electrokinetic Microfluidics, Nanofluidics and Lab-on-Chip Devices	Host: Yuejun Kang (康跃军)		
10:10-10:40	Coffee Break & Group Photo			
10:40-11:20	Jongyoon Han Massachusetts Institute of Technology, Cambridge, USA Ion Selective Membrane (ISM) Microsystems for Biomedical Applications	Host: Jianping Fu (傅剑平)		
11:20-12:00	Xingyu Jiang (蒋兴宇) National Center for NanoScience and Technology, University of Chinese Academy of Sciences, Beijing, China Microfluidics for Tomorrow's Medicine			
12:00-14:00	Lunch	Furong Restaurant 芙蓉餐厅		UESTC
14:00-14:40	Jianping Fu (傅剑平) University of Michigan, Ann Arbor, USA Synthetic Human Embryology in a Dish	Host: Xingyu Jiang (蒋兴宇)		Room A: Auditorium, ESTI, UESTC 会议室 A: 电子科技大学电科院报告厅
14:40-15:20	Rong Fan (樊荣) Yale University, New Haven, USA BioMEMS Tools for Single-cell Functional Omics and the Monitoring of Cancer Immunotherapy			
15:20-15:40	Coffee Break			
15:40-16:20	Zuankai Wang (王钻开) City University of Hong Kong, Hong Kong, China	Host: Rong Fan (樊荣)		

	Self-propelled Droplets for Biomedical Applications		
16:20-17:00	Yonggang Wen (文勇刚) Nanyang Technological University, Singapore Performance Optimization for Distributed Machine-Learning Applications at Scale:A Swiss-Army-Knife Approach		
17:00-17:40	Poster Presentation & Companies Exhibitions		
18:00-19:00	Dinner	Furong Restaurant 芙蓉餐厅	UESTC
19:00	School Shuttle (From UESTC to Hotel)		
Day 3, Thursday, June 14, 2018			
8:30	School Shuttle (From Hotel to UESTC)	Holiday Inn Parking lot 酒店停车场 (一楼大堂外)	Holiday Inn
Main Forum	Keynote Speeches Chair: Dongqing Li (李冬青)		
9:00-9:40	Yuan-Ting Zhang (张元亭) City University of Hong Kong, Hong Kong, China Health Engineering: Wearable “MINDS” for the Early Prediction of Cardiovascular Diseases	Host: Yuejun Kang (康跃军)	Room A: Auditorium, ESTI, UESTC 会议室 A: 电子科技大学清水河校区电科院报告厅
9:40-10:20	Leslie Y. Yeo RMIT University, Melbourne, Australia Plug-and-Actuate On Demand: Multimodal Modular Individual Addressability of Microarray Plates		
10:20-10:40	Coffee Break		
10:40-11:20	Nam-Trung Nguyen Griffith University, Brisbane, Australia Liquid marble based digital microfluidics: fundamental physics and applications	Host: Zuankai Wang (王钻开)	
11:20-12:00	Campus Tour		
12:00-14:00	Lunch	Furong Restaurant 芙蓉餐厅	
Sub-Forums			
14:00-17:30	Sub-Forum 1 "Electronic Information & Biomedicine" Outstanding Talent Forum “电子信息+生物医学”杰出人才论坛	Room A: The Auditorium, ESTI, UESTC 会议室 A: 电子科技大学清水河校区电科院报告厅	
	Sub-Forum 2 Biomedical Materials and Micro-nano Devices Forum 生物医用材料与微纳器件论坛	Room B : Room 401, Zonghe Building, UESTC, Qingshuihe Campus 会议室 B : 电子科技大学清水河校区, 综合楼 401	
	Sub-Forum 3	Room C : Room 309, Zonghe Building, UESTC,	

	Biomedical Systems and Artificial Intelligence(AI) Forum 生物医学系统与人工智能论坛	Qingshuihe Campus 会议室 C : 电子科技大学清水河校区, 综合楼 309	
18:00-19:00	Dinner	Furong Restaurant 芙蓉餐厅	UESTC
19:00	School Shuttle (From UESTC to Hotel)		
Day 4, Friday, June 15, 2018			
8:30	School Shuttle (From Hotel to UESTC)	Holiday Inn Parking lot 酒店停车场 (一楼大堂外)	Holiday Inn
9:00-11:00	Sub-Forum 1 "Electronic Information & Biomedicine" Outstanding Talent Forum “电子信息+生物医学”杰出人才论坛	Room A: The Auditorium, ESTI, UESTC 会议室 A: 电子科技大学清水河校区电科院报告厅	
	Sub-Forum 2 Biomedical Materials and Micro-nano Devices Forum 生物医用材料与微纳器件论坛	Room B : Room 401, Zonghe Building, UESTC, Qingshuihe Campus 会议室 B : 电子科技大学清水河校区, 综合楼 401	
	Sub-Forum 3 Biomedical Systems and Artificial Intelligence(AI) Forum 生物医学系统与人工智能论坛	Room C : Room 309, Zonghe Building, UESTC, Qingshuihe Campus 会议室 C : 电子科技大学清水河校区, 综合楼 309	
11:00-11:20	Break		
11:20-11:40	Closing Ceremony & Best Poster Presentation Award	Room A: The Auditorium, ESTI, UESTC 会议室 A: 电子科技大学清水河校区电科院报告厅	
12:00-13:00	Lunch	Furong Restaurant 芙蓉餐厅	UESTC
13:00	School Shuttle (From UESTC to Hotel)		
13:30	Check-out	Front Desk	Holiday Inn

Sub-Forum 1

"Electronic Information & Biomedicine" Outstanding Talent Forum

“电子信息+生物医学”杰出人才论坛

June 14 -15, 2018

Room A: The Auditorium, ESTI, UESTC (电子科技大学清水河校区电科院报告厅)

Day 3, Thursday, June 14, 2018		
14:00-14:10	Opening Speech	Host: Qin Yuan (袁勤)
14:10-14:20	Welcome Speech by UESTC Leader	Speaker:***
Invited Talks		
14:20-14:50	Dezhong Yao (尧德中) University of Electronic Science and Technology of China, Chengdu, China Cloud Platform for Brainformatics	Host: Yufei Liu (刘玉菲)
14:50-15:20	Xi Xie (谢曦) Sun Yat-Sen University, Guangzhou, China Nanostraw-device for highly efficient gene transfection	
15:20-15:50	Weiwei Zhao (赵维巍) Harbin Institute of Technology, Shenzhen, China A general approach for flexible and foldable low-resistivity paper/fabric-based electronics	
15:50-16:20	Coffee Break & Group Photo	
16:20-16:50	Yufei Liu (刘玉菲) Chongqing University, Chongqing, China Integrated Microsystems for Early Diagnosis and Precision Bio-Medical Application	Host: Weiwei Zhao (赵维巍)
16:50-17:20	Xiaochen Dong (董晓臣) Nanjing Tech University, Nanjing, China NIR Photosensitizers for Targeted Cancer Phototherapy	
17:20-17:50	Xing Ma (马星) Harbin Institute of Technology, Shenzhen, China Micro/Nano-Motors for Biomedical Applications	
Day 4, Friday, June 15, 2018		
9:00-9:30	Zhizhao Che (车志钊) Tianjin University, Tianjin, China Heat and mass transfer in simple and compound droplets moving in microchannels	Host: Yuejun Kang (康跃军)
9:30-10:00	Huajin Tang (唐华锦) Sichuan University, Chengdu, China Neuromorphic Computing Approach to Auditory and Visual Perception	
10:00-10:30	Tuan Guo (郭团) Jinan University, Guangzhou, China Plasmonic fiber-optic biochemical and electrochemical sensing	
10:30-11:00	Wei Liu (刘威)	

Wuhan University, Wuhan, China	
Nanomaterials based cancer diagnosis and therapy	

Sub-Forum 2

Biomedical Materials and Micro-nano Devices Forum

生物医用材料与微纳米器件论坛

June 14 -15, 2018

Room B : Room 401, Zonghe Building, UESTC, Qingshuihe Campus (电子科技大学清水河校区综合楼 401)

Day 3, Thursday, June 14, 2018		
Invited Talks		
14:00-14:30	Hejun Du (杜和军) Nanyang Technological University, Singapore Manipulation of Microparticles Into 3D Matrix Patterns Using Standing Surface Acoustic Waves Microfluidics	Session Chair: Fei Duan (段飞)
14:30-15:00	Guoqing Hu (胡国庆) Institute of Mechanics, Chinese Academy of Sciences, Beijing, China Inertial and Viscoelastic Effects for Micro/nano-particles Manipulation	
15:00-15:30	Shi-Yang Tang (唐诗杨) University of Wollongong, Wollongong, Australia Microfluidic Mass Production of Stabilized and Stealthy Liquid Metal Nanoparticles	
15:30-15:50	Coffee Break	
15:50-16:20	Fei Duan (段飞) Nanyang Technological University, Singapore Controlled Wetting and Evaporation Transition in a Drying Sessile Droplet	Session Chair: Shi-Yang Tang (唐诗杨)
Oral Talks		
16:20-16:40	Peng Xue (薛鹏) Southwest University, Chongqing, China Surface Modification of Polydimethylsiloxane (PDMS) to Enhance Hemocompatibility for Potential Applications in Medical Implants or Devices	Session Chair: Shi-Yang Tang (唐诗杨)
16:40-17:00	Qianbin Zhao (赵乾斌) University of Wollongong, Wollongong, Australia Inertial microparticle manipulation by sheath flow-enhanced secondary flow in slanted groove microchannel	
17:00-17:20	Ye Tian (田野) The University of Hong Kong, Hong Kong, China Bioinspired Cavity-Microfibers from Microfluidics	
Day 4, Friday, June 15, 2018		
Invited Talks		

9:00-9:30	Yi Zhang (张翼) Nanyang Technological University, Singapore Polydopamine-Modified Magnetic Digital Microfluidic Platform for Biosensing	Session Chair: Jun Zhang (张俊)
9:30-10:00	Fei Liu (刘飞) Wenzhou Medical University, Wenzhou, China Isolation and Quantitative Analysis of Extracellular Vesicles for Cancer Early Detection	
Oral Talks		
10:00-10:20	Jun Zhang (张俊) Nanjing University of Science and Technology, Nanjing, China A Novel Single-layer Microchannel for Continuous Sheathless Single-stream Particle Inertial Focusing	Session Chair: Yi Zhang (张翼)
10:20-10:40	Xinyi Guo (郭欣仪) Tianjin University, Tianjin, China Cell Membrane Poration towards Intracellular Delivery based on Gigahertz Electromechanical Resonators	
10:40-11:00	Yang Yang (杨洋) Tianjin University, Tianjin, China Selective Trapping and Controllable Release of Single Cell via Three-Dimensional Acoustic Fluidics	

Sub-Forum 3

Biomedical Systems and Artificial Intelligence(AI) Forum

生物医学系统与人工智能论坛

June 14 -15, 2018

Room C : Room 309, Zonghe Building, UESTC, Qingshuihe Campus (电子科技大学清水河校区综合楼 309)

Day 3, Thursday, June 14, 2018		
Invited Talks		
14:00-14:30	Feng Guo (郭峰) Indiana University, Bloomington, USA Acoustofluidic Manipulation of Single Cells	Session Chair: Ling Yu (余玲)
14:30-15:00	Chunxia Zhao (赵春霞) The University of Queensland, Brisbane, Australia Engineered Micro/nanostructures for Drug Delivery and Controlled Release	
15:00-15:30	Kan Liu (刘侃) University of Electronic Science and Technology of China, Chengdu, China Highly efficient isolation and accurate in situ analysis of circulating tumor cells (CTCs) by a commercially available microfluidic device	
15:30-15:50	Coffee Break	
15:50-16:20	Ling Yu (余玲)	Session Chair: Chunxia Zhao

	Southwest University, Chongqing, China Fast Prototyping and Fabrication of Micro Devices in a Non-cleanroom Setting	(赵春霞)
Oral Talks		
16:20-16:40	Jin Yang (杨进) Chongqing University, Chongqing, China TENG based Pressure Sensor for Continuous Measurement of Human Arterial Pulse Wave	Session Chair: Chunxia Zhao (赵春霞)
16:40-17:00	Huaying Chen (陈华英) Harbin Institute of Technology, Shenzhen, China Distance-based Quantification of Blood Glucose using a Paper-based Microfluidic Device	
17:00-17:20	Zifei Xu (徐梓菲) Nanjing University of Aeronautics & Astronautics, Nanjing, China Development of a Portable Electrical Impedance Tomography System with Red Pitaya STEMLab	
Day 4, Friday, June 15, 2018		
Invited Talks		
9:00-9:30	Lei Xi (奚磊) Southern University of Science and Technology, Shenzhen, China Miniaturization in photoacoustic microscopy and its applications in microfluidics	Session Chair: Peng Xue (薛鹏)
9:30-10:00	Wenxue Wang (王文学) Chengdu Tianxia120 Co., Ltd, Chengdu, China (成都天下医森数字科技有限公司) The Application of Intelligent Digital Technology in the Active Health Management	
Oral Talks		
10:00-10:20	Shuting Pan (潘书婷) Tianjin University, Tianjin, China A Label-free Immunosensor based on Gigahertz Resonator Enhanced Fibre Optic SPR	Session Chair: Wenxue Wang (王文学)
10:20-10:40	Changhao Li (李长昊) University of Electronic Science and Technology of China, Chengdu, China Measurement and Analysis of Arm Muscle Movement with Ultrasound Imaging	