Program

Main venue (Baosheng Hall)

Saturday, December 9, 2023（Beijing time）		
Morning	08:20-08:30	Opening Ceremony
	08:30-09:10	Ceremony for FlexTech
	Plenary lecture, chair: Yonggang Huang	
	09:10-10:00	**John A. Rogers,** *Northwestern University*
		Flexible electronics for neural interfaces
	10:00-10:20	Coffee break & Photo time
	Plenary lecture, chair: Xue Feng	
	10:20-11:10	**Takao Someya,** *The University of Tokyo*
		Exploring electronic skins: from the past to the future
	11:10-12:00	**Jinsong Leng,** *Harbin Institute of Technology*
		Shape morphing composites: programmability, 4D printing and applications
Afternoon	14:00-18:00 (Approximate)	**Three parallel sessions**
Evening	19:00-21:00	Banquet
Sunday, December 10, 2023（Beijing time）		
Morning	**Plenary lecture, chair: Yihui Zhang**	
	08:30-09:20	**Chwee Teck Lim,** *National University of Singapore*
		Wearable haptics for AI healthcare & the health metaverse
	09:20-10:10	**Dae-Hyeong Kim,** *Seoul National University*
		Nanomaterials-based soft human-centric optoelectronics
	10:10-10:30	Coffee break
	Round-table discussion & poster award	
	10:30-11:20	Round-table discussion
	11:20-11:30	Best poster award
Afternoon	14:00-18:00	**Three parallel sessions**

Session-1
New material and structural design of flexible electronics (Baosheng Hall 1&2)

Saturday, December 9, 2023（Beijing time）		
Afternoon	**Keynote lecture, chair: Jianliang Xiao**	
	14:00-14:25	**Hanqing Jiang,** *Westlake University*
		Curved origami for robotics and active mechanical haptics
	14:25-14:50	**Run-Wei Li,** *Ningbo Institute of Materials Technology and Engineering, CAS*
		Flexible electric/magnetic functional materials and devices
	14:50-15:15	**Yong Zhu,** *North Carolina State University*
		Thermal actuation for soft robotics
	Invited lecture, chair: Lan Yin	
	15:15-15:35	**Jianfeng Zang,** *Huazhong University of Science and Technology*
		Soft intelligent materials for biomedical applications
	15:35-15:55	**Xian Huang,** *Tianjin University*
		Flexible optoelectronic devices for monitoring and regulating physiological activities
	15:55-16:20	Coffee break
	Keynote lecture, chair: Yong Zhu	
	16:20-16:45	**Fengwei Huo,** *Nanjing Tech University*
		Design and Application of Leather Electronics
	16:45-17:10	**Jianliang Xiao,** *University of Colorado*
		Stretchable, self-healable, recyclable and reconfigurable electronics for wearable applications
	Invited lecture, chair: Yong Zhu	
	17:10-17:30	**Lan Yin,** *Tsinghua University*
		Biodegradable materials for electronic medicine and biosensors
	17:30-17:50	**Ye Xu,** *Beihang University*
		Self-assembly and alignment of nanowires for flexible composite materials with anisotropic electrical and optical properties
	18:00-19:00	Poster

Sunday, December 10, 2023（Beijing time）		
Afternoon	**Keynote lecture, chair: Shuzhou Li**	
	14:00-14:25	**Wenlong Cheng,** *Monash University*
		AI-powered wearable skins for connected healthcare
	Invited lecture, chair: Shuzhou Li	
	14:25-14:45	**Lizhi Xu,** *The University of Hong Kong*
		Biomimetic microfibrillar networks for soft bioelectronics, tissue engineering, and beyond
	14:45-15:05	**Hao Zhang,** *Tsinghua University*
		Direct photopatterning and 3D printing of colloidal inorganic nanocrystals for their integration in optoelectronic and bioelectronic devices
	15:05-15:25	**Ting Wang,** *Nanjing University of Posts and Telecommunications*
		Biomolecular perception on soft interfaces
	15:25-15:50	Coffee break
	Keynote lecture, chair: Lizhi Xu	
	15:50-16:15	**Shuzhou Li,** *Nanyang Technological University*
		Numerical simulations and machine learning for flexible materials
	Invited lecture, chair: Lizhi Xu	
	16:15-16:35	**Yifan Wang,** *Nanyang Technological University*
		Shape-morphing and variable stiffness intelligent structures
	16:35-16:55	**Ke Liu,** *Peking University*
		Braided artificial muscles for bio-mimetic actuation under deepwater

Session-2
Novel devices and unconventional fabrication of flexible electronics (Baosheng Hall 3)

Saturday, December 9, 2023（Beijing time）		
Afternoon	**Keynote lecture, chair: Chuanfei Guo**	
	14:00-14:25	**Yuan Lin,** *University of Electronic Science and Technology of China*
		Flexible electronics for in-situ non-pharmacological stimulation treatments
	14:25-14:50	**Lian Duan,** *Tsinghua University*
		Wide color gamut OLEDs based on TADF sensitized fluorescence
	Invited lecture, chair: Ming Wang	
	14:50-15:10	**Jing Yu,** *Nanyang Technological University*
		Developing hydrogel materials for epidermal sweat sensors
	15:10-15:30	**Yang Xu,** *Zhejiang University*
		Multilayer graphene/silicon broadband photodetectors
	15:30-15:50	**Li Gao,** *Nanjing University of Posts and Telecommunications*
		Intelligent design, characterization and fabrication of nanophotonic devices
	15:50-16:20	Coffee break
	Keynote lecture, chair: Lian Duan	
	16:20-16:45	**Chuanfei Guo,** *Southern University of Science and Technology*
		Structure-property correlation in artificial skins
	16:45-17:10	**Sihong Wang,** *The University of Chicago*
		Stretchable and bioadhesive polymer bioelectronics
	Invited lecture, chair: Jing Yu	
	17:10-17:30	**Ming Wang,** *Fudan University*
		Flexible neuromorphic devices for near-sensor and in-sensor computing
	17:30-17:50	**Binghao Wang,** *Southeast University*
		Semiconductor/insulating polymer blends for diverse thin-film transistors and sensors
	17:50-18:10	**Wei Zhai,** *National University of Singapore*
		Tough and strong hierarchical soft materials for flexible electronics
	18:10-19:00	Poster

Sunday, December 10, 2023（Beijing time）		
Afternoon	**Keynote lecture, chair: Li Zhang**	
	14:00-14:25	**Martin Kaltenbrunner,** *Johannes Kepler University Linz*
		Materials and methods for sustainable soft devices
	14:25-14:50	**Zijian Zheng,** *The Hong Kong Polytechnic University*
		Liquid metal patterned, stretchable and permeable electronics
	Invited lecture, chair: Hangbo Zhao	
	14:50-15:10	**Kaichen Xu,** *Zhejiang University*
		Hybrid laser manufacturing of flexible electronics and system integration
	15:10-15:30	**Zhiyuan Liu,** *Shenzhen Institute of Advanced Technology, CAS*
		Soft electronics for physiological monitoring: from single to multi modes, from soft to living
	15:30-15:50	Coffee break
	Keynote lecture, chair: Zijian Zheng	
	15:50-16:15	**Li Zhang,** *The Chinese University of Hong Kong*
		Exploiting ferrofluidic wetting for miniature soft machines
	Invited lecture, chair: Zijian Zheng	
	16:15-16:35	**Hangbo Zhao,** *University of Southern California*
		High-stretchability and low-hysteresis strain sensors using origami-inspired 3D mesostructures
	16:35-16:55	**Dianpeng Qi,** *Harbin Institute of Technology*
		Interface bonding strategy for soft bioelectronics
	16:55-17:15	**Yanchao Mao,** *Zhengzhou University*
		Flexible human-machine interacting sensors

Session-3

Emerging applications and performances of flexible electronics (Guofeng Hall 1)

Saturday, December 9, 2023（Beijing time）		
Afternoon	**Keynote lecture, chair: Ni Zhao**	
	14:00-14:25	**Yang Chai,** *The Hong Kong Polytechnic University*
		Bioinspired in-sensor computing for artificial vision
	14:25-14:50	**Xingyu Jiang,** *Southern University of Science and Technology*
		A stretchable surface electromyography array patch based on liquid metal and conductive polymers
	Invited lecture, chair: Enming Song	
	14:50-15:10	**Xing Sheng,** *Tsinghua University*
		A Wireless optoelectronic probe monitors tissue oxygenation in the deep brain
	15:10-15:30	**Xinge Yu,** *City University of Hong Kong*
		Intelligent skin electronics for healthcare monitoring and XR
	15:30-15:50	**Qinglei Guo,** *Shandong University*
		Transferable inorganic semiconductor membranes for flexible/transient electronics
	15:50-16:20	Coffee break
	Keynote lecture, chair: Xing Sheng	
	16:20-16:45	**Ni Zhao,** *The Chinese University of Hong Kong*
		New generation optoelectronic devices for medical applications
	Invited lecture, chair: Xing Sheng	
	16:45-17:05	**Sungjun Park,** *Ajou University*
		Ultraflexible organic optoelectronics for finger-motion recognition
	17:05-17:25	**Enming Song,** *Fudan University*
		Active bioelectronic systems with large-scale silicon-nanomembrane transistor array as chronic neural interfaces
	17:25-17:45	**Wenbo Ding,** *Tsinghua-Berkeley Shenzhen Institute*
		Flexible visuo-tactile sensing for object recognition and grasping
	18:00-19:00	Poster

Sunday, December 10, 2023（Beijing time）		
Afternoon	**Keynote lecture, chair: Sheng Xu**	
	14:00-14:25	**Tianling Ren,** *Tsinghua University*
		Flexible and intelligent electronics based on two-dimensional materials
	14:25-14:50	**Yongan Huang,** *Huazhong University of Science and Technology*
		Intelligent flexible electronic skin for digital aerodynamic mapping of flying aircraft
	Invited lecture, chair: Mengdi Han	
	14:50-15:10	**Wei Yan,** *Donghua University*
		Smart fiber materials and devices for information technology
	15:10-15:30	**Xuewen Wang,** *Northwestern Polytechnical University*
		Flexible mechanical sensors toward health-monitoring
	15:30-15:50	Coffee break
	Keynote lecture, chair: Yongan Huang	
	15:50-16:15	**Wei Gao,** *California Institute of Technology*
		Skin-interfaced wearable biosensors
	16:15-16:40	**Sheng Xu,** *University of California San Diego*
		Plenty of room under the skin
	Invited lecture, chair: Xuewen Wang	
	16:40-17:00	**Mengdi Han,** *Peking University*
		Millimeter-scale implants for wireless biosensing
	17:00-17:20	**Kewang Nan,** *Zhejiang University*
		Flexible electronics for the theranostics of gastrointestinal dysmotility
	17:20-17:40	**Changsheng Wu,** *National University of Singapore*
		Magnetism mediated flexible battery bridging soft robotics and flexible electronics