

NUS Program - 15 Dec Monday							
Time	Type	Venue	Session Chair	Name	Email	University	Title
7:00 - 8:30	Registration						
8:30 - 8:40	Opening Speech						
8:45 - 9:30	Plenary Speech 1	LT3		Kohji MITSUBAYASHI	m.bdi@tmd.ac.jp	Institute of Science Tokyo	Wearable biosensing approaches for preemptive medicine
9:30 - 10:00	Keynote Speech 1			Kun-Lin YANG	cheyk@nus.edu.sg	National University of Singapore	Liquid Crystals in Microfluidic Devices for Biosensing Applications
10:00 - 10:20	Tea Break						
10:20 - 10:50	Keynote Speech 2	LT3		Michinao Hashimoto	hashimoto@sutd.edu.sg	Singapore University of Technology and Design	To be Determined
10:50 - 11:10	Invited Talk 1			Moeto Nagai	nagai@me.tut.ac.jp	Toyohashi University of Technology	Optofluidics for High-throughput Single-Cell Processing
11:10 - 11:30	Invited Talk 2			Yu Xin LIU	lyx@nus.edu.sg	National University of Singapore	Sensing Solid-state Epidermal Biomarkers
11:30 - 11:50	Invited Talk 3			Sanghoon LEE	hoonw@dgist.ac.kr	Daegu Gyeongbuk Institute of Science and Technology	Restorative Microneedle Muscle Interfaces for Lower Extremity Neuroprosthetic Applications
11:50 - 12:10	Invited Talk 4			Ah-Hyoung LEE	ahhyoung_lee@dgist.ac.kr	Daegu Gyeongbuk Institute of Science and Technology	Distributed Wireless Bioelectronic System for Large-Scale Neural Sensing and Stimulation
12:10 - 13:30	Lunch Break						
13:30 - 14:00	Keynote Speech 3	LT3		Minoru SASAKI	mnr-sasaki@toyota-ti.ac.jp	Toyota Technological Institute	Infra-red concave lens mold with moth eye microtexture realized by fine patterning of latent image
14:00 - 14:30	Keynote Speech 4			Sang-Seok LEE	sslee@tottori-u.ac.jp	Tottori University	Microconcentrator and High Sensitivity Gas Sensor for Breath Analysis Based Health Monitoring
14:30 - 14:50	Invited Talk 5			Kenshi HAYASHI	hayashi@ed.kyushu-u.ac.jp	Kyushu University	Visualization of odor distribution and quality using 2D reservoir plasmonic gas sensor
14:50 - 15:10	Invited Talk 6			Mengmeng SUN	mmsun@nus.edu.sg	National University of Singapore	Magnetic miniature robots: from individual to collective behavior
15:10 - 15:30	Invited Talk 7			Daisuke YOSHINO	dyoshino@go.tuat.ac.jp	Tokyo University of Agriculture and Technology	Plasma-Induced Biofunctionalization of Collagen Molecules in Liquid Phase
15:30 - 15:50	Invited Talk 8			Wei ZHAI	mpezwei@nus.edu.sg	National University of Singapore	Nature-inspired tough soft materials for flexible electronics
16:30	Bus at SDE2 (117576)						
16:30 - 17:00	Transportation to Botanic Garden (Through BUS)						
17:00 - 18:30	Social Event (Botanic Garden)						
18:30 Onwards	Appreciation Dinner at MELBEN SEAFOOD CLUNY						

NUS Program - 16 Dec Tuesday							
Time	Type	Venue	Session Chair	Name	Email	University	Title
8:45 - 9:30	Plenary Speech 2	LT3		Ying-Hao CHU	yinghaochu@gmail.com	National Tsing Hua University	A Versatile Muscovite Mica-Based Platform for High-Performance Flexible Bio-Integrated Sensors and Systems
9:30 - 10:00	Keynote Speech 5			Chia-Hung CHEN	chiachen@cityu.edu.hk	City University of Hong Kong	To be Determined
10:00 - 10:20	Tea Break						
10:20 - 10:50	Keynote Speech 6	LT3		Hongliang REN	hopvard@gmail.com	The Chinese University of Hong Kong	Endoluminal Robotics & Embodied AI in vivo
10:50 - 11:10	Invited Talk 9			Takamasa OKUMURA	tokumura@plasma.ed.kyushu-u.ac.jp	Kyushu University	Plasma-Enabled Reprogramming of Plant Environmental Memory
11:10 - 11:30	Invited Talk 10			Yueming JIN	ymjin@nus.edu.sg	National University of Singapore	To be Determined
11:30 - 11:50	Invited Talk 11			Changsheng WU	cwu@nus.edu.sg	National University of Singapore	Decoding Physiology Through Skin Vibrations: From Skin-Interfaced to Contactless Wearables
11:50 - 12:10	Invited Talk 12			Lailai ZHU	lailai_zhu@nus.edu.sg	National University of Singapore	Chemotactic navigation of a microbotic swimmer using hierarchical reinforcement learning
12:10 - 13:30	Lunch Break						
13:30 - 13:45	Oral Talk 1	LT3		Xinge GUO	ece-xg@nus.edu.sg	National University of Singapore	Biocompatible Ionic Hydrogel with Stable Energy Harvesting and Self-Powered Leaf Health Monitoring for Future Smart Farming
13:45 - 14:00	Oral Talk 2			Yuxiang QIU	qiu-yuxiang-2021@g.ecc.u-tokyo.ac.jp	The University of Tokyo	Low-Cost mmWave Radar Data Augmentation: Cross-wearable Simulation from Monocular Video to Electromagnetic Echo for Healthcare Applications
14:00 - 14:15	Oral Talk 3			Yujia HU	3906910474@g.ecc.u-tokyo.ac.jp	The University of Tokyo	Flow-Adaptive Whistle Design for Practical Methane Sensing in Cattle
14:15 - 14:35	Invited Talk 13			Fan SHI	fan.shi@nus.edu.sg	National University of Singapore	Synthetic Data for Humanoid Learning: Wins, Falls, and the Next
14:35 - 14:50	Oral Talk 4			Arphorn Promking	promking.arphorn.p00@naist.ac.jp	Nara Institute of Science and Technology	Front-Layer Optical Structure for Enhanced Lensless Fluorescent Imaging
14:50 - 15:05	Oral Talk 5			Ravinder Kumar Verma	ravinderkv1@gmail.com	OP Jindal Global University	Role of Artificial Intelligence for Adaptive Control in Exoskeletons: Past, Present and Emerging Scope
15:05 - 15:20	Oral Talk 6			Dongxiao LI	dongxiao@nus.edu.sg	National University of Singapore	Bulk-suppressed Metasurfaces for Mid-Infrared Encryption Imaging and Spatial Gradient Sensing
15:20 - 15:35	Oral Talk 7		Jianlong HONG	hongjl@nus.edu.sg	National University of Singapore	Body-coupled-driven object-oriented natural interactive interface	
16:00	Bus at SDE2 (117576)						
16:00-16:30	Transportation to Sentosa W Hotel (Through BUS)						
16:00 - 18:00	Social Event at Sentosa						
18:30 Onwards	Banquet at W Hotel Sentosa						

NUS Program - 16 Dec Tuesday (Parallel section in the afternoon)

Lunch Break							
12:10 - 13:30							
13:30 - 13:45	Oral Talk 8			Cheng XU	elexuc@nus.edu.sg	National University of Singapore	Twisted stacking chiral metamaterials for MIR imaging applications
13:45 - 14:00	Oral Talk 9			Weikin LIU	eelwei@nus.edu.sg	National University of Singapore	Nano-opto-electro-mechanical gratings for on-chip switching and spectral shaping
14:00 - 14:15	Oral Talk 10			Zian XIAO	xza@nus.edu.sg	National University of Singapore	Photonic end-to-end in-sensor computing system for spectroscopy sensor
14:15 - 14:30	Oral Talk 11			Yinpeng WANG	wangyinpeng@u.nus.edu	National University of Singapore	Active Learning Enabled Designs for Near-Field Enhanced THz Metamaterial Biosensors
14:30 - 14:45	Oral Talk 12			Mengyao XIAO	e1143591@u.nus.edu	National University of Singapore	Blayer BTO-NNO films for acoustic resonator
14:45 - 15:00	Oral Talk 13			Yangyang ZHUGE	zhuge.99@nus.edu.sg	National University of Singapore	Photonic Bayesian Neural Networks: Leveraging Programmable Noise for Robust and Uncertainty-Aware Computing
15:00 - 15:15	Oral Talk 14			Wenjie ZHANG	e1143550@u.nus.edu	National University of Singapore	Photonic Neural Networks for In-Memory and In-Sensor Computing for AI Processors
15:15 - 15:30	Oral Talk 15			Yuxin LIU	lyx@nus.edu.sg	National University of Singapore	MEMS-based reconfigurable eye-shape THz metasurface for programmable beam steering application
15:30 - 15:45	Oral Talk 16			Daoye ZHANG	daoye.zheng@u.nus.edu	National University of Singapore	MEMS based high-efficient metasurface thermal emitter for sensing applications