



13-14 September 2023



Program

I.	DAY 1 (08:45-09:00)	Opening and Welcome Speech - Professor Khaled Letaief, HKUST
II.	DAY 1 (09:00-10:00)	Session One (Part One) - Chair: Professor Qian Zhang, HKUST
III.	DAY 1 (10:00-10:30)	Coffee Break // Poster Session One
IV.	DAY 1 (10:30-11:30)	Panel Discussion - Moderator: Professor Kaibin Huang, HKU
V.	DAY 1 (11:30-12:30)	Session One (Part Two) - Chair: Professor Qian Zhang, HKUST
VI.	DAY 1 (12:30-14:00)	Lunch Break // Lion Dance
VII.	DAY 1 (14:00-15:00)	Session Two (Part One) - Chair: Professor Angela Yingjun Zhang, CUHK
VIII.	DAY 1 (15:00-15:30)	Coffee Break // Poster Session Two
IX.	DAY 1 (15:30-16:30)	Panel Discussion - Moderator: Professor Chik Patrick Yue, HKUST
X.	DAY 1 (16:30-17:30)	Session Two (Part Two) - Chair: Professor Angela Yingjun Zhang, CUHK
I.	DAY 2 (09:00-10:30)	Session Three (Part One) - Chair: Professor Ross Murch, HKUST
II.	DAY 2 (10:30-11:00)	Coffee Break
III.	DAY 2 (11:00-12:30)	Session Three (Part Two) - Chair: Professor Ross Murch, HKUST
IV.	DAY 2 (12:30-14:00)	Lunch Break

IEEE Hong Kong 6G Wireless Summit (IEEE HK6GWS 2023)

Sept. 13 (UTC +8)	Topic	Speaker	Affiliation
08:45-09:00	Opening and Welcome Speech	Khaled Letaief	HKUST
09:00-09:30	The GPT-Based Communications Paradigm	Wen Tong	Huawei Wireless
09:30-10:00	6G - Holistic Network Virtualization and Edge Intelligence	Sherman Shen	IEEE ComSoc
10:00-10:30	Coffee Break // Poster Session One		
10:30-11:30	Panel Discussion: The Race to 6G: Challenges and Opportunities	Merouane Debbah Ari Pouttu Zhi Ding Zhisheng Niu Ying-Chang Liang	Khalifa University University of Oulu UC Davis Tsinghua University UESTC
11:30-12:00	Key potential technologies of 6G Air interface	Yifei Yuan	China Mobile
12:00-12:30	Enhancing 6G Imaging Technology Using Inverse Scattering	Ross Murch	HKUST
12:30-14:00	Lunch Break // Lion Dance		
14:00-14:30	The INGR Vision and the Path to 6G	Ashutosh Dutta	IEEE Future Networks
14:30-15:00	Large Language Models for Telecom: Challenges and Opportunities	Merouane Debbah	Khalifa University
15:00-15:30	Coffee Break // Poster Session Two		
15:30-16:30	Panel Discussion: How 6G Will Transform Industries and Society?	I-Kang Fu Yan Li Jianmin Lu Henry Wong Frank Wong Nan Zhang	MediaTek Qualcomm Research Huawei Wireless HKT Limited Rohde & Schwarz ZTE Corporation
16:30-17:00	Open RAN: From 5G Applications to 6G Research	Tony Quek	SUTD
17:00-17:30	Optical Mobile Communications for 6G and Beyond	Zaichen Zhang	Southeast University
Sept. 14 (UTC +8)	Topic	Speaker	Affiliation
09:00-09:30	6G Shaping the Future Society - 6G Flagship Approach	Ari Pouttu	University of Oulu
09:30-10:00	6G for Ubiquitous and Sustainable Digitalization	Sumei Sun	I ² R A*STAR
10:00-10:30	Towards 6G - Lessons From 5G	Justin Chuang	Comm. Tech. ASTRI
10:30-11:00	Coffee Break		
11:00-11:30	Leading 5G Advanced Evolution on the Path to 6G	Hao Xu	Qualcomm Research
11:30-12:00	Resonant Tunneling Diode-Based THz SWIPT for Microscopic 6G IoT devices	Robert Schober	FAU
12:00-12:30	Evolutionary and Revolutionary Technologies for 6G: Flexible Duplex and Semantic Communications	Chan-Byoung Chae	Yonsei University
12:30-14:00	Lunch Break		

Poster Session One (10:00 - 10:30, 13 September 2023)

1. **Chongyun Zhang, HKUST**, High-Speed PAM-4 Optical Link for Short-Reach Interconnection
2. **Zilu Liu, HKUST**, Millimeter-Wave Phased-Array System for Simultaneous Wireless Information and Power Transfer
3. **Zhiyan Liu, HKU**, Over-the-Air View-Pooling for Low-Latency Distributed Sensing
4. **Qunsong Zeng, HKU**, Realizing In-Memory Baseband Processing for Ultra-Fast and Energy-Efficient 6G
5. **Xinran Li, HKUST**, AC2C: Adaptively Controlled Two-Hop Communication for Multi-Agent Reinforcement Learning
6. **Jiawei Shao, HKUST**, EdgeGPT: GPT-Empowered Autonomous Edge Inference
7. **Chengyu Xia, HKUST**, Bayesian Model Compression for Communication & Computation Efficient Federated Learning
8. **Wenchao Xu, PolyU**, Fast Packet Loss Inferring Over Tiny Wireless Device
9. **Ning Li, PolyU**, Peak Aol Minimization at Wireless-Powered Network Edge: From the Perspective of Both Charging and Transmitting
10. **Qingyong Hu, HKUST**, CSI-StripeFormer: Exploiting Stripe Features for CSI Compression in Massive MIMO System
11. **Meng Xue, HKUST**, SDE: Early Screening for Dry Eye Disease with Wireless Signals

Poster Session Two (15:00 - 15:30, 13 September 2023)

1. **Wentao Yu, HKUST**, Fixed Point Networks: Adaptive and Robust Deep Learning for THz Ultra-Massive MIMO Channel Estimation
2. **Ruoxiao Cao, HKUST**, Variational Newtonized Near-Field Channel Estimation for ELAA Systems
3. **Lumin Liu, HKUST**, Federated Learning Meets Wireless Communication: Communication, Utility, and Privacy
4. **Ziyi Xu, CUHK**, SAMBA: Scenario-Adaptive Meta-learning for mmWave Beam Alignment
5. **Chang Cai, CUHK**, Multi-Device Task-Oriented Communication via Maximal Coding Rate Reduction
6. **Zan Li, HKUST**, A Real-Time Radio Tomographic Indoor Imaging System using Inverse Scattering
7. **Frankie Chiu, HKUST**, An Ambient RF Powered Wireless Sensor System
8. **Junhui Rao, HKUST**, Reconfigurable Intelligent Surface with Wide-Angle Passive Beamforming for Future Wireless Communication Systems
9. **Chengyu Xia, HKUST**, Multi-resolution Model Compression for Deep Neural Networks: A Variational Bayesian Approach
10. **Linping Qu, HKUST**, Energy-Efficient Channel Decoder for Federated Learning
11. **Syed Mohsin Abbas, HKUST**, Step-GRAND: A Low Latency Universal Soft-input Decoder

Speakers



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Zhisheng Niu
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