

Time/Day	Wednesday, 28 July 2021							
08:00-08:30	Conference Registration							
	Tutorial			Workshop				
	Room 1	Room 2	Room 3	Room 4	Room 5	Room 6	Room 7	Room 8
08:30-10:00	TUT-01: MetaEverything: Intelligent Meta-Material Aided Sensing and Communications	TUT-03: Reconfigurable Intelligent Surfaces for Future Wireless Communications	TUT-05: Deep Learning Empowered Large-Scale Antenna Systems	WS6-1: Workshop on Emerging Radio Access Network Technologies for B5G/6G (ERAN)	WS4-1: Reconfigurable Intelligent Surfaces for Next Generation Wireless Communications (RIS for 6G Networks)	WS5-1: Third International Workshop on Network Softwarization Techniques for IoT Application (NetSoft IoT)	WS8-1: Workshop on Underwater Acoustic Communications and Marine Information Technology (UAC)	WS7-1: Workshop on Integrated Sensing, Computation and Communication towards 6G (ISSC)
10:00-10:30	Tea Break							
10:30-12:00	TUT-01: MetaEverything: Intelligent Meta-Material Aided Sensing and Communications	TUT-03: Reconfigurable Intelligent Surfaces for Future Wireless Communications	TUT-05: Deep Learning Empowered Large-Scale Antenna Systems	WS6-2: Workshop on Emerging Radio Access Network Technologies for B5G/6G (ERAN)	WS4-2: Reconfigurable Intelligent Surfaces for Next Generation Wireless Communications (RIS for 6G Networks)	WS5-2: Third International Workshop on Network Softwarization Techniques for IoT Application (NetSoft IoT)	WS8-2: Workshop on Underwater Acoustic Communications and Marine Information Technology (UAC)	WS7-2: Workshop on Integrated Sensing, Computation and Communication towards 6G (ISSC)
12:10-14:00	Lunch							
14:00-15:30	TUT-02: 6G Wireless Channel Measurements and Models: Recent Advances and Future Challenges	TUT-04: Application of NOMA in 6G Networks: Future Vision and Research Opportunities for Next Generation Multiple Access	TUT-06: Federated Machine Learning in 6G: Opportunities and Challenges	WS2-1: Beyond Massive MIMO Workshop (Be-MM)	WS3-1: Orthogonal Time Frequency Space Modulation for Reliable High-mobility Communications (OTFS)	WS1-1: 5G Moving Forward: Standards and Vertical (5GSV)	WS8-3: Workshop on Underwater Acoustic Communications and Marine Information Technology (UAC)	WS7-3: Workshop on Integrated Sensing, Computation and Communication towards 6G (ISSC)
15:30-16:00	Tea Break							
16:00-17:30	TUT-02: 6G Wireless Channel Measurements and Models: Recent Advances and Future Challenges	TUT-04: Application of NOMA in 6G Networks: Future Vision and Research Opportunities for Next Generation Multiple Access	TUT-06: Federated Machine Learning in 6G: Opportunities and Challenges	WS2-2: Beyond Massive MIMO Workshop (Be-MM)	WS3-2: Orthogonal Time Frequency Space Modulation for Reliable High-mobility Communications (OTFS)	WS1-2: 5G Moving Forward: Standards and Vertical (5GSV)	WS8-4: Workshop on Underwater Acoustic Communications and Marine Information Technology (UAC)	WS7-4: Workshop on Integrated Sensing, Computation and Communication towards 6G (ISSC)
18:30-21:00	Welcome Reception							

Time/Day	Thursday, 29 July 2021							
08:00-08:30	Conference Registration							
08:30-09:00	Opening Ceremony							
09:00-09:40	Keynote Speech #1: Towards Intelligent and Efficient Mobile Communication Systems: A New Paradigm of Semantic Communications Prof. Ping Zhang (Ballroom)							
09:40-10:20	Keynote Speech #2: Towards Integrated Intelligence for a Connected World Prof. Khaled. B. Letaief (Ballroom)							
10:20-10:50	Tea Break							
10:50-11:30	Keynote Speech #3: The Merging between Federated Learning and Communication Network Optimization Prof. Shuguang Cui (Ballroom)							
11:30-12:10	Keynote Speech #4: Symbiotic Radio: Cognitive Backscattering Communications for Future Wireless Networks Prof. Ying-Chang Liang (Ballroom)							
12:10-14:00	Lunch							
14:00-15:50	Panel 1 (Room 1)	Panel 2 (Room 2)	WC-2 (Room 3)	SPC-1 (Room 4)	MWN-1 (Room 5)	IOT-1 (Room 6)	Invited-1 (Room 7)	Invited-3 (Room 8)
15:50-16:20	Tea Break							
16:20-18:30	WC-1 (Room 1)	Panel 2 (Room 2)	WC-3 (Room 3)	CIS-1 (Room 4)	MWN-2 (Room 5)	IOT-2 (Room 6)	Invited-2 (Room 7)	MWN-3 (Room 8)
18:30-21:00	Banquet							

Time/Day	Friday, 30 July 2021							
08:00-08:30	Conference Registration							
08:30-09:10	Keynote Speech #5: Non-Terrestrial Networks: Key Enabler for the Smart Societies of the Future Prof. Halim Yanikomeroglu (Ballroom)							
09:10-09:50	Keynote Speech #6: From 5G to 6G: Driving applications and Enabling Technologies Prof. Sumei Sun (Ballroom)							
09:50-10:30	Keynote Speech #7: Cybertwin – A Pathway to Cloud Native Network Prof. Wei Zhang (Ballroom)							
10:30-11:00	Tea Break							
11:00-12:30	Panel 3 (Ballroom)	SPC-2 (Room 2)	NGNI-1 (Room 3)	SAC-1 (Room 4)	CT-1 (Room 5)	CT-2 (Room 6)	SPC-5 (Room 7)	WC-6 (Room 8)
12:30-14:00	Lunch							
14:00-15:50	WC-4 (Room 1)	SPC-3 (Room 2)	NGNI-2 (Room 3)	SAC-2 (Room 4)	MWN-4 (Room 5)	IOT-3 (Room 6)	SPC-6 (Room 7)	WC-7 (Room 8)
15:50-16:20	Tea Break							
16:20-18:30	WC-5 (Room 1)	SPC-4 (Room 2)	NGNI-3 (Room 3)	CIS-2 (Room 4)	MWN-5 (Room 5)	IOT-4 (Room 6)	CIS-3 (Room 7)	WC-8 (Room 8)

TUTORIALS

Tutorial 1: MetaEverything: Intelligent Meta-Material Aided Sensing and Communications

Instructor: Boya Di, Hongliang Zhang, and Lingyang Song

Tutorial 2: 6G Wireless Channel Measurements and Models: Recent Advances and Future Challenges

Instructor: Cheng-Xiang Wang, Haiming Wang, Jie Huang, and Harald Haas

Tutorial 3: Reconfigurable Intelligent Surfaces for Future Wireless Communications

Instructor: Alessio Zappone, Marco Di Renzo, Shi Jin, and Merouane Debbah

Tutorial 4: Application of NOMA in 6G Networks: Future Vision and Research Opportunities for Next Generation Multiple Access

Instructor: Zhiguo Ding and Yuanwei Liu

Tutorial 5: Deep Learning Empowered Large-Scale Antenna Systems

Instructor: Feifei Gao and Shun Zhang

Tutorial 6: Federated Machine Learning in 6G: Opportunities and Challenges

Instructor: Yuanming Shi and Yong Zhou

WORKSHOPS

WS1: 5G Moving Forward: Standards and Vertical (5GSV)

WS2: Beyond Massive MIMO Workshop (Be-MM)

WS3: Orthogonal Time Frequency Space Modulation for Reliable High-mobility Communications (OTFS)

WS4: Reconfigurable Intelligent Surfaces for Next Generation Wireless Communications (RIS for 6G Networks)

WS5: Third International Workshop on Network Softwarization Techniques for IoT Application (NetSoft IoT)

WS6: Workshop on Emerging Radio Access Network Technologies for B5G/6G (ERAN)

WS7: Workshop on Integrated Sensing, Computation and Communication towards 6G (ISSC)

WS8: Workshop on Underwater Acoustic Communications and Marine Information Technology (UAC)

PANELS

Panel 1: Green 6G: Challenges and Research Directions (Tsinghua University)

Panel 2: 6G Industry Wireless Research (NI)

Panel 3: 6G Network AI (Huawei)

TECHNICAL SESSIONS

CT: Communication Theory

SPC: Signal Processing for Communications

WC: Wireless Communications

MWN: Mobile and Wireless Networks

IOT: Internet of Things

CIS: Communication and Information Security

SAC: Selected Areas in Communications

NGNI: Next Generation Networking and Internet

Locations of Meeting Rooms

- **TUTORIALS:**

Room 1, 2, 3.

- **WORKSHOPS:**

Room 4, 5, 6, 7, 8.

- **PANELS:**

Room 1, 2 and Ballroom

- **TECHNICAL Sessions:**

Room 1, 2, 3, 4, 5, 6, 7, 8.

Room 1: Meeting Room 2 (2F) (会议室 2, 二楼)

Room 2: Meeting Room 3 (2F) (会议室 3, 二楼)

Room 3: Zijing Hall (3F) (紫荆厅, 三楼)

Room 4: Baihe Hall (3F) (百合厅, 三楼)

Room 5: Haitang Hall 1 (3F) (海棠厅 1, 三楼)

Room 6: Haitang Hall 2 (3F) (海棠厅 2, 三楼)

Room 7: Jinxia Hall 1 (3F) (金厦厅 1, 三楼)

Room 8: Jinxia Hall 2 (3F) (金厦厅 2, 三楼)

Ballroom : Guoyan Hall (2F) (国宴厅, 二楼)