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Tutorial 2 Channel Measurements and Modeling for 6G and Beyond: From Discrete Local-Space Wireless Propagation Channels to 3D Continuous-Space Radio Channels

Presenter 1

Cheng-Xiang Wang, Southeast University & Purple Mountain Laboratories, China

Presentation Title

Channel Measurements and Modeling for 6G and Beyond: From Discrete Local-Space Wireless Propagation Channels to 3D Continuous-Space Radio Channels

Cheng-Xiang Wang is a professor with the School of Information Science and Engineering, Southeast University and Pervasive Communication Research Center, Purple Mountain Laboratories, Nanjing, China. He has authored 4 books, 3 book chapters, and over 560 papers in refereed journals and conference proceedings, including 27 highly cited papers. He has delivered 27 invited keynote speeches/talks and 18 tutorials in international conferences. His current research interests include wireless channel measurements and modeling, 6G wireless communication networks, and electromagnetic information theory. He is a Member of the Academia Europaea (The Academy of Europe), a Member of the European Academy of Sciences and Arts (EASA), a Fellow of the Royal Society of Edinburgh (FRSE), IEEE, IET and China Institute of Communications (CIC), an IEEE Communications Society Distinguished Lecturer in 2019 and 2020, a Highly-Cited Researcher recognized by Clarivate Analytics in 2017-2020. He is currently an Executive Editorial Committee Member of the IEEE TWC.

Presenter 2

Jie Huang, Southeast University & Purple Mountain Laboratories, China

Presentation Title

Channel Measurements and Modeling for 6G and Beyond: From Discrete Local-Space Wireless Propagation Channels to 3D Continuous-Space Radio Channels

Jie Huang received the B.E. degree in Information Engineering from Xidian University, China, in 2013, and the Ph.D. degree in Information and Communication Engineering from Shandong University, China, in 2018. He is an Associate Professor with the School of Information Science and Engineering, Southeast University and Pervasive Communication Research Center, Purple Mountain Laboratories, Nanjing, China. He has authored more than 100 papers in refereed journals and conference proceedings. He received the Best Paper Awards from WPMC 2016, WCSP 2020, and WCSP 2021. He has delivered 12 tutorials in IEEE/CIC ICCC 2021, IEEE PIMRC 2021, IEEE ICC 2022, IEEE VTC-Spring 2022, IEEE/CIC ICCC 2022, IEEE VTC-Fall 2022, IEEE PIMRC 2022, IEEE Globecom 2022, IEEE WCNC 2023, IEEE ICC 2023, IEEE/CIC ICCC 2023, and IEEE WCNC 2024. His research interests include millimeter wave, massive MIMO, reconfigurable intelligent surface channel measurements and modeling, wireless big data, electromagnetic information theory, and 6G wireless communications.

Presenter 3

Chen Huang, Southeast University & Purple Mountain Laboratories, China

Presentation Title

Channel Measurements and Modeling for 6G and Beyond: From Discrete Local-Space Wireless Propagation Channels to 3D Continuous-Space Radio Channels

Chen Huang received the Ph.D. degrees from Beijing Jiaotong University, China, in 2021. He is now an research associate professor in the Pervasive Communication Research Center, Purple Mountain Laboratories, and an extramural supervisor in the National Mobile Communications Research Laboratory, School of Information Science and Engineering, Southeast University, China. He is selected in the Outstanding Postdoctoral Fellow Program in Jiangsu, received 3 times the Best Paper Award from IEEE ICCT2023, WCSP 2018, IEEE/CIC ICCC 2018, and serves as the Technical Program Committee (TPC) member for several conferences, including GlobeCom, ICC, VTC-fall, VTC-spring, etc. His research interests include 6G channel measurements, characterization, and modeling, machine learning-based channel prediction, and localization. He has authored/co-authored 1 book chapters, more than 60 journal and conference papers, as well as 17 patents.

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