Tutorial 3 Large-Scale MIMO Communications: A Reconfigurable Holographic Metasurface Perspective

Presenter 1

Boya Di, Peking University, China

Presentation Title

Basics and Key Enabling Techniques of Reconfigurable Holograhphic Surface Enabled Wireless Transmissions

Boya Di has been working as an assistant professor at Peking University since 2021. She obtained her Ph.D. degree from the Department of Electronics, Peking University, China, in 2019. Prior to that, she received the B.S. degree in electronic engineering from Peking University in 2014. She was a postdoc researcher at Imperial College London after graduation. Her current research interests include holographic surfaces enabled communications and sensing. She is the recipient of 2022 IEEE ComSoc Asia-Pacific Outstanding Young Researcher Award and 2023 IEEE ComSoc TCCN publication award. She serves as an associate editor for IEEE Transactions on Vehicular Technology, IEEE Communications Surveys and Tutorials, IEEE Internet of Things Journal, and IEEE Transactions on Machine Learning in Communications and Networking.

Presenter 2

Hongliang Zhang, Peking University, China

Presentation Title

Applications and Implementation of Reconfigurable Holographic Surface enabled Systems

Hongliang Zhang (S'15-M'19) received B.S. and Ph.D. degrees at the School of Electrical Engineering and Computer Science at Peking University, in 2014 and 2019, respectively, where he is currently an assistant professor with School of Electronics. His current research interests include reconfigurable intelligent surfaces, aerial access networks. He is the recipient of 2023 IEEE ComSoc Asia-Pacific Outstanding Young Researcher Award, 2021 IEEE Comsoc Heinrich Hertz Award for Best Communications Letters, and 2021 IEEE ComSoc Asia-Pacific Outstanding Paper Award. He is the winner of the Outstanding Leadership Award as the publicity chair for IEEE EUC in 2022. He is currently an Editor for IEEE Transactions on Vehicular Technology, IEEE Communications Letters, IET Communications, and Frontiers in Signal Processing. He has also served as a Guest Editor for several journals, such as IEEE Internet of Things Journal and Journal of Communications and Networks.
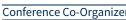
Co-Sponsors — IEEE Beijing Section · 电子科技大学 University of Electronic Science and Technology of China

Technical Co-Sponsor — IEEE Chengdu Section

Local Organizer — 电子科技大学 University of Electronic Science and Technology of China

Conference Co-Organizer — ACN 先进通信网全国重点实验室 National Key Laboratory of Advanced Communication Network Technology · 香港科技大学(广州) THE HONG KONG UNIVERSITY OF SCIENCE AND TECHNOLOGY (GUANGZHOU) · 北京邮电大学 BEIJING UNIVERSITY OF POSTS AND TELECOMMUNICATIONS · SINGAPORE UNIVERSITY OF TECHNOLOGY AND DESIGN

Supporter — Digital Communications and Networks

Contact Us **Mia Xue** ✉ Email: icct_contact@163.com ☎ Tel. : +86-19008028167