

Call for papers

Wireless Communications Symposium (WCS)

IEEE ICNC 2024

Big Island, Hawaii, USA, Feb 19-22, 2023

<http://www.conf-icnc.org/2024>

Symposium Co-Chairs

Yue Gao, Fudan University, China (yue.gao@ieee.org)

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Scope

The Wireless Communications Symposium (WCS) will focus on topics related to all aspects of physical layer (PHY), MAC layer, cross-layer, and physical-layer-related network analysis and design. In particular, the WCS invites original contributions in, but not limited to, the following topical areas:

- Smart antennas, antenna arrays, metasurfaces, and space-time processing
- Propagation and channel modeling
- Modulation, coding, and diversity techniques
- MIMO, multi-user MIMO, massive MIMO and ultra-massive MIMO
- Interference characterization and modeling
- Interference management, alignment, and cancellation
- Multiple access techniques and air interfaces
- Distributed, relay assisted, and cooperative communications
- Cross-layer design and physical-layer based network issues
- Full-duplex radio communications
- Heterogeneous and small-cell networks
- Device-to-device (D2D) and machine-to-machine (M2M) communications
- Non terrestrial networks (NTN)
- Space-Air-Ground Integrated Networks
- LEO Satellite Networks
- Localization and navigation techniques
- Underwater and maritime wireless communications
- Energy harvesting communications & Wireless power transfer
- Millimeter-wave and terahertz-band communications
- Optical wireless communications (OWC)
- Physical-layer network coding
- Physical-layer network security
- Radio resource management
- Radio systems virtualization
- Ultra-wideband communications (UWB)
- Blockchain-enabled wireless communications
- Semantic communications

- Haptic and kinetic encoding for PHY communication
- URLLC for Tactile Internet
- Network coding for Tactile Internet
- Wireless communications for Web3
- Wireless communications for the metaverse
- Wireless communications testbeds, field tests, and measurements

Submission Guidelines

Perspective authors should follow the instructions at <http://www.conf-icnc.org/2024/author.htm> to prepare their manuscripts. All papers should be submitted via EDAS. Submission information can be found at <http://www.conf-icnc.org/2024/cfp.htm>.

Short Biographies of Co-Chairs

Yue Gao is a Chair Professor at the School of Computer Science, Director of the Intelligent Networking and Computing Research Centre at Fudan University, China and a Visiting Professor at the University of Surrey, UK. His research interests include wireless communications and cognitive networks for mobile and satellite systems. He has published over 200 peer-reviewed journal and conference papers. He is a member of the Board of Governors and Distinguished Lecturer of the IEEE Vehicular Technology Society (VTS), Chair of the IEEE ComSoc Wireless Communication Technical Committee, and past Chair of the IEEE ComSoc Technical Committee on Cognitive Networks. He has been an Editor of several IEEE Transactions and Journals, and Symposia Chair, Track Chair, and other roles in the organising committee of several IEEE ComSoC, VTS and other conferences.

Sharief Oteafy is an Assistant Professor at the School of Computing, DePaul University, USA, where he founded the Next Generation Networking (NexGeN) lab. His current research focuses on developing the Tactile Internet, caching in Information Centric Networks, and managing the proliferation of Big Sensed Data (BSD). He is the lead technical editor of the IEEE P1918.1 Tactile Internet (TI) Standard, and co-leads the team working on that standard. Dr. Oteafy co-authored a book on “Dynamic Wireless Sensor Networks”, presented 50+ publications and delivered multiple IEEE tutorials on IoT, BSD and TI. He is the General Chair of IEEE LCN 2023, and co-chaired a number of IEEE conferences and symposia (LCN, Globecom, ICC, CSCN), in addition to a number IEEE and workshops in conjunction with IEEE ICC and IEEE LCN. He is currently an Associate Editor with IEEE Communications Magazine and on the editorial board of Wiley’s Internet Technology Letters, and previously with IEEE Access.

Qiang Ye is a Professor in the Faculty of Computer Science at Dalhousie University, Canada. His current research interests lie in the area of communication networks in general. Specifically, he is interested in Wireless Networks, Internet of Things (IoT), Network Security, and Machine Learning/Data Analytics. He has published a series of papers in top publication venues such as IEEE/ACM Transactions on Networking (TON), IEEE Transactions on Parallel and Distributed Systems (TPDS), and IEEE Transactions on Wireless Communications (TWC). He received a Ph.D. in Computing Science from the University of Alberta in 2007. His M. Engr. and B. Engr. in Computer Science and Technology are from Harbin Institute of Technology, P.R. China. He is a Member of IEEE and ACM.