Call for papers

Wireless Communications Symposium (WC)

IEEE ICNC 2023
Honolulu, Hawaii, USA, Feb 20-22, 2023
http://www.conf-icnc.org/2023

Symposium Co-Chairs

Josep Miquel Jornet, Northeastern University, USA (jmjornet@northeastern.edu)
Xintong Ling, Southeast University, China (xtling@seu.edu.cn)
Lotfi Mhamdi, University of Leeds, UK (l.mhamdi@leeds.ac.uk)

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)
- 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
- Radio resource management
- Radio systems virtualization
- Ultra-wideband communications (UWB)
- Blockchain-enabled wireless communications
- 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/2023/author.htm to prepare their manuscripts. All papers should be submitted via EDAS. Submission information can be found at http://www.conf-icnc.org/2023/cfp.htm.

Short Biographies of Co-Chairs

Josep Miquel Jornet is an Associate Professor in the Department of Electrical and Computer Engineering, the Director of the Ultrabroadband Nanonetworking Laboratory and a Faculty Member of Institute for the Wireless Internet of Things at Northeastern University, Boston, MA. He received the Ph.D. degree in Electrical and Computer Engineering from the Georgia Institute of Technology, Atlanta, GA, in 2013. His research interests are in THz-band communication networks, wireless nano-bio-communication networks, and the Internet of Nano-Things. In these areas, he has co-authored more than 200 peer-reviewed scientific publications, 1 book, and has also been granted 5 US patents. These works have been cited over 12,700 times (h-index of 51). He is serving as the lead principal investigator on multiple grants from U.S. federal agencies including the National Science Foundation, the Air Force Office of Scientific Research and the Air Force Research Laboratory. He is a recipient of the National Science Foundation CAREER award and of several other awards from IEEE, ACM, UB and NU. He is a Senior Member of the IEEE, a Member of the ACM, and an IEEE ComSoc Distinguished Lecturer (class of 2022-2023). He is serving as a Vice Chair of IEEE ComSoc RCC SIG on THz Communications, and as an Editor for IEEE Transactions on Communications.

Xintong Ling is currently an Associate Professor with the National Mobile Communications Research Laboratory (NCRL), Southeast University, and also with the Purple Mountain Laboratories. He received the B.E. and Ph.D. degrees in electrical engineering from Southeast University, Nanjing, China, in 2013 and 2018, respectively. From 2016 to 2018, he was a visiting Ph.D. student with the Department of Electrical and Computer Engineering, University of California at Davis. His current research interests focus on future generation wireless communications and networks, including blockchain technologies, distributed networking systems, machine learning, and signal processing.

Lotfi Mhamdi received the Master of Philosophy (MPhil.) degree in computer science from the Hong Kong University of Science and Technology (HKUST) in 2002 and the PhD. degree in computer engineering from Delft University of Technology (TU Delft), The Netherlands, in 2007. Since 2011, he has with the school of Electronic and Electrical Engineering at the University of Leeds, UK. Dr. Mhamdi is/was a technical program committee co-chair and member in various conferences, including the chairing IEEE International Conference on Communications (ICC), the IEEE GLOBECOM NGNI Symposia, the IEEE Workshop on High Performance Switching and Routing (HPSR), and the ACM/IEEE International Symposium on Networks- on-Chip (NoCS). His research work spans the areas of high- performance networks including high-performance switches and Internet routers, Network Security and SDNs. Dr. Mhamdi has been an active member of the IEEE ComSoc TC- CSR for over 10 years. He has been sered as the TC-CSR secretary, the founding editor of the TC-CSR Newsletter, its Vice- Chair and now he is voted as its Chair. He is a member of IEEE ComSoc and IEEE.