

# Wireless Communication Symposium

# **Symposium Co-Chairs**

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### **Scope and Motivation**

The Wireless Communications Symposium invites high-quality submissions in all areas of wireless communications and its applications, with a strong focus on topics related to physical layer (PHY), Medium Access Control (MAC) layer, cross-layer, and PHY-related network analysis and design as well as emerging topics. Papers on field tests and measurements, field trials and applications from both industry and academia are also highly encouraged.

# **Topics of Interest**

To ensure complete coverage of the advances in wireless communications technologies for the current and future systems, the Wireless Communication Symposium seeks original contributions in the following topical areas, plus others that are not explicitly listed but are closely related:

- Advanced equalization, channel estimation, and synchronization
- Antennas, smart antennas, and space-time processing
- Channel modelling and propagation
- Cooperative and relay-aided communications
- Non-orthogonal multiple access (NOMA)
- Rate splitting multiple access (RSMA)
- Cross-layer design and physical-layer based network issues
- Digital broadcasting of audio (DAB), video (DVB), and multimedia (MBMS)
- Heterogeneous and small-cell networks
- Hybrid communication systems (e.g. satellite/unmanned aerial vehicles/terrestrial/wireline hybrids/ Space-Ground Integrated Networks)
- Inter-cell interference coordination (ICIC) and coordinated multi-point (CoMP)

- Interference management, alignment, and cancellation
- Intelligent reflecting surface enhanced wireless communications
- Physical layer issues in device-to-device and machine-to-machine communications
- Localization and navigation techniques
- Machine learning/Deep Learning/AI for wireless communication systems
- Data-driven communication systems
- Millimeter wave and Terahertz communications
- MIMO, multi-user MIMO, massive MIMO, cell-free Massive MIMO
- Mobile edge computing and edge AI
- Modulation, coding, and diversity techniques
- Radio resource allocation
- Physical-layer aspects of wireless sensor networks
- RFID and backscatter communications
- Semantic communications
- Security/privacy issues related to wireless communications
- Ultra-reliable low latency communications (uRLLC)
- Wireless communications testbeds, field tests, and measurements
- Wireless power transfer and energy harvesting for wireless communications
- Performance analysis of wireless communication systems
- Open, virtualized and UL/DL decoupled Radio Access Networks for wireless communications
- Wireless system standards

#### **Important Dates**

Paper Submission: 15 April 2022 Notification: 25 July 2022 Camera Ready and Registration: 1 September 2022

# How to Submit a Paper

All papers for technical symposia should be submitted via EDAS. Full instructions on how to submit papers are provided on the IEEE Globecom 2022 website: <u>https://globecom2022.ieee-globecom.org/</u>