



Sustainable Communications for Renaissance

## Call for Papers

### *Wireless Communications 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 the physical layer (PHY), medium access control (MAC) layer, cross-layer, and PHY-related network analysis and design. In particular, papers on comprehensive field tests and measurements, trials and applications from both industry and academia are highly encouraged.

#### Topics of Interest

To ensure complete coverage of the advances in wireless communications technologies for the current and future wireless systems, the Wireless Communications Symposium cordially invites original contributions in, but not limited to, the following areas:

- Advanced equalization, channel estimation, and synchronization
- Antennas, smart antennas, and space-time processing
- Artificial intelligence and machine learning for wireless communication systems
- Channel modelling and propagation
- Cooperative and relay-aided communications
- Cross-layer design and physical-layer based network issues
- Digital broadcasting of audio (DAB), video (DVB), and multimedia (MBMS)
- Full-duplex techniques
- Heterogenous and small-cell networks
- Hybrid communication systems (e.g satellite/unmanned aerial vehicles/terrestrial/wireline hybrids)
- Intelligent reflecting surfaces

- Inter-cell interference coordination (ICIC) and coordinated multi-point (CoMP)
- Interference management, alignment, and cancellation
- Localization and navigation techniques
- Millimeter wave and Terahertz communications
- MIMO, multi-user MIMO, massive MIMO, XL-MIMO, holographic MIMO
- Mobile edge computing and edge AI
- Modulation, coding, and diversity techniques
- Performance analysis of wireless communication systems
- Radio resource allocation
- RFID and backscatter communications
- Security/privacy issues related to wireless communications
- Ultra-reliable low-latency communications
- Wireless access techniques, systems, and standards
- Wireless communications on different media (e.g., underwater)
- Wireless communications testbeds, field tests, and measurements
- Wireless network coding
- Wireless power transfer and energy harvesting for wireless communications
- Wireless system standards

## Important Dates

**Paper Submission:** 11 October 2022

**Acceptance Notification:** 18 January 2023

**Camera-Ready:** 15 February 2023

## Important Note

The authors of selected papers from this symposium will be invited to submit an extended version of their work for fast-track review and possible publication in the IEEE Open Journal of the Communications Society.

## How to Submit a Paper

All papers for technical symposium should be submitted via EDAS. Full instructions on how to submit papers are provided on the IEEE ICC 2023 website: <https://icc2023.ieee-icc.org/>