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Communications Technologies 4Good

Call for Papers and Proposals

Wireless Communications 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 communications, relaying, and intelligent reflecting surfaces
- Cross-layer design and physical-layer based network issues
- Full-duplex techniques
- Fluid antenna system
- Green communication systems
- Heterogenous and small-cell networks
- Hybrid communication systems (e.g. satellite/UAV/terrestrial/wireline hybrids, and optical wireless)
- Integrated sensing and communication
- Interference management, alignment, and cancellation

- Internet of Things
- Localization and navigation techniques
- Low power communications
- Millimeter wave and Terahertz communications
- MIMO, multi-user MIMO, massive MIMO, XL-MIMO and holographic MIMO
- Mobile edge computing and edge AI
- Modulation, coding, and diversity techniques
- Movable antenna systems
- Performance analysis of wireless communication systems
- Radio resource allocation and management
- RFID and backscatter communications
- Security/privacy issues related to wireless communications
- Semantic communication
- 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 power transfer and energy harvesting for wireless communications
- Wireless system standards

Important Dates

Paper Submission: 11 October 2024

Acceptance Notification: 18 January 2025

Camera-Ready: 15 February 2025

How to Submit a Paper

All papers for technical symposia should be submitted via EDAS. Full instructions on how to submit papers and important deadlines are posted at <https://icc2025.ieee-icc.org/>

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.