



IEEE International Conference on Communications
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Communications Enabling Shared Understanding



Call for Papers

Wireless Communications Symposium

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Scope and Topics of Interest

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. In particular, papers on field tests and measurements, field trials and applications from both industries and academia are highly encouraged.

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

- Advanced equalization, channel estimation, and synchronization
- Modulation, coding, and diversity techniques
- Antennas, smart antennas, and space-time processing
- MIMO, multi-user MIMO, massive MIMO and large intelligent surfaces
- Millimeter wave and Terahertz communications
- Channel modelling and propagation
- Interference modelling and performance analysis using stochastic tools

- Interference management, alignment, and cancellation
- Multiple access techniques and air interfaces (CDMA, TDMA, FDMA, OFDMA, NOMA)
- Wireless access techniques, systems, and standards
- Cross-layer design and physical-layer based network issues
- Radio resource allocation and interference management
- Cooperative and relay-aided communications
- Inter-cell interference coordination (ICIC) and coordinated multi-point (CoMP)
- Heterogeneous and small-cell networks
- Hybrid communication systems (e.g. satellite/unmanned aerial vehicles/terrestrial/wireline hybrids)
- Physical layer issues in device-to-device and machine-to-machine communications
- Localization and navigation techniques
- Wireless power transfer and energy harvesting for wireless communications
- Performance analysis of wireless communication systems
- Security issues related to wireless communications
- Physical-layer aspects of wireless sensor networks
- RFID and backscatter communications
- Wireless network coding
- Wireless communications on different media (e.g., underwater)
- Digital broadcasting of audio (DAB), video (DVB), and multimedia (MBMS)
- Wireless system standards
- Wireless communications testbeds, field tests, and measurements
- Artificial intelligence and machine learning for wireless communication systems

Submission Guidelines

The IEEE ICC 2020 website (icc2020.ieee-icc.org) provides full instructions on manuscript format and how to submit a manuscript. You will select the desired symposium/track when submitting your manuscript.