IEEE International Conference on Communications

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Intelligent Connectivity for Smart World

Call for Papers for
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 systems, the Wireless Communications Symposium cordially invites original contributions in, but not limited to, the following topical 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)
- Heterogeneous and small-cell networks
- Hybrid communication systems (e.g., satellite/unmanned aerial vehicles/terrestrial/wireline hybrids)
- Inter-cell interference coordination (ICIC) and coordinated multi-point (CoMP)
- Interference management, alignment, and cancellation

- Interference modelling and performance analysis using stochastic tools
- Localization and navigation techniques
- Millimeter-wave and Terahertz communications
- MIMO, multi-user MIMO, massive MIMO, and intelligent surfaces
- Modulation, coding, and diversity techniques
- Multiple access techniques and air interfaces (CDMA, TDMA, FDMA, OFDMA, NOMA) •
- Performance analysis of wireless communication systems
- Physical layer issues in device-to-device and machine-to-machine communications
- Radio resource allocation and interference management
- RFID and backscatter communications
- Security issues related to wireless 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:

Deadline for paper submission: 11 October 2021
Date for notification: 18 January 2022
Deadline for final paper submission: 15 February 2022