



IEEE International Conference on Communications
20-24 May 2019 // Shanghai, China
Empowering Intelligent Communications

CALL FOR PAPERS WIRELESS COMMUNICATIONS SYMPOSIUM

Symposium Co-Chairs

Xu (Judy) Zhu, The University of Liverpool, UK & HIT (Shenzhen), China xuzhu@liverpool.ac.uk

Harpreet Dhillon, Virginia Tech, USA hdhillon@vt.edu

Feifei Gao, Tsinghua University, China feifeigao@ieee.org

Julian Cheng, University of British Columbia, Canada Julian.Cheng@ubc.ca

Andreas Knopp, Bundeswehr University Munich, Germany andreas.knopp@unibw.de

Scope and Topics of Interest

The Wireless Communications Symposium (WCS) covers all aspects related to current and future wireless communications and its applications, with a focus on topics related to physical layer (PHY), Medium Access Control (MAC) layer, cross-layer, and PHY-related network analysis and design. High quality papers reporting on novel and practical solutions to PHY, MAC, and cross-layer designs in wireless communication systems are encouraged. In addition, papers on field tests and measurements, field trials and applications from both industries and academia are of special interest. To ensure complete coverage of the advances in wireless communications technologies for the current and future systems, the WCS cordially invites original contributions in, but not limited to, the following topical areas:

- Artificial intelligence for wireless communications
- Advanced equalization, channel estimation, and synchronization
- Antennas, smart antennas, and space-time processing
- Broadband wireless access techniques, systems and standards
- Channel modeling and propagation
- Compressive sensing and communications
- Cooperative and relay-aided communications
- Cross-layer design and physical-layer based network issues
- Digital broadcasting of audio (DAB), video (DVB), and multimedia (MBMS)
- Energy harvesting for wireless communications
- Heterogeneous and small-cell networks
- Hybrid communication systems (e.g. satellite/terrestrial/wireline hybrids)
- Inter-cell interference coordination (ICIC) and coordinated multi-point (CoMP)
- Interference management, alignment, and cancellation
- Interference modeling and performance analysis using stochastic tools
- Localization and navigation techniques
- Millimeter wave communications
- MIMO, multi-user MIMO, and massive MIMO
- Modulation, coding, and diversity techniques
- Multiple access techniques and air interfaces (CDMA, TDMA, FDMA, OFDMA, NOMA)
- Performance analysis of wireless communication systems
- Physical-layer aspects of wireless sensor networks
- Physical-layer issues in device-to-device and machine-to-machine communications
- Physical-layer network coding
- Physical-layer security
- Radio resource allocation and interference management
- RFID and its applications
- Security issues related to wireless communications
- Terahertz communications
- Wireless communications on different media (e.g., underwater)
- Wireless power transfer
- Wireless system standards
- Wireless communications testbeds, field tests, and measurements

Submission Guidelines

The IEEE ICC 2019 website provides full instructions on how to submit papers and the paper format.

Please select the desired symposium when submitting a paper.

The paper submission deadline is October 14, 2018.

Only PDF files will be accepted for the review process and all submissions must be done through EDAS at <http://edas.info/>.