

IEEE Global Communications Conference 9-13 December 2018 Abu Dhabi, UAE Gateway to a Connected World



Call For Papers Wireless Communications Symposium

Symposium Co-Chairs

Yuan Shen, Tsinghua University, China, shenyuan_ee@tsinghua.edu.cn
Hyunbum Kim, University of North Carolina at Wilmington, USA, kimh@uncw.edu
Daniele Tarchi, University of Bologna, Italy, daniele.tarchi@unibo.it
Sheng Zhou, Tsinghua University, China, sheng.zhou@tsinghua.edu.cn
Athanasios C. Iossifides, Alexander TEI of Thessaloniki, Greece, aiosifidis@el.teithe.gr

Scope and Topics of Interest:

The Wireless Communications Symposium 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 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, and massive MIMO
- Millimeter wave and Terahertz communications
- Channel modelling and propagation
- Interference modelling and performance analysis
- Interference management, alignment, and cancellation
- Advanced multiple access techniques and air interfaces (CDMA, TDMA, FDMA, OFDMA)
- Next generation and beyond multiple access techniques (NOMA, SCMA, MUST, etc.)
- Cross-layer design and physical-layer based network issues
- Radio resource allocation
- 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/terrestrial/wireline hybrids)







IEEE Global Communications Conference 9-13 December 2018 Abu Dhabi, UAE Gateway to a Connected World



- Physical layer issues in device-to-device and machine-to-machine communications
- Localization and navigation techniques
- Wireless power transfer and energy harvesting
- Performance analysis of wireless communication systems
- Security issues related to wireless communications
- Physical-layer aspects of wireless sensor networks
- RFID and its applications
- Wireless network coding
- Wireless communications on different media (e.g., underwater)
- Digital broadcasting of audio (DAB), video (DVB), and multimedia (MBMS)
- Wireless systems and standards
- Wireless communications testbeds, field tests, and measurements