



Call for Papers for Wireless Communications Symposium (WCS)

Scope and Motivation:

Wireless communications have become one of the most vibrant areas in today's telecommunications industry. To support advanced wireless solutions and services, novel solutions in the physical (PHY) layer, MAC layer, network and upper layers are needed. The Wireless Communications Symposium will cover all aspects related to wireless communications systems, with a focus on topics related to PHY, MAC, Cross-layer, and physical layer-related network design and analysis. The symposium encourages paper submissions reporting on novel results and solutions in PHY, MAC and cross-layer design in wireless communication systems. To ensure complete coverage of the advances in wireless communications technologies for current and future systems, the Wireless Communications Symposium seeks original contributions in, but not limited to, the following topical areas:

Topics of Particular Interest:

- Adaptive Modulation and Coding
- Dynamic/Opportunistic Spectrum Access
- Cooperative Communications
- MIMO and Multi-antenna Communications
- Space-Time Coding and Diversity Techniques

- Ultra-wideband (UWB) Communications
- OFDM and Multi-Carrier Systems
- Advanced Equalization for Single Carrier Systems
- Synchronization, Estimation and Detection
- Wireless Multiple Access techniques (CDMA, TDMA, FDMA, ...)
- Multi-user Detection, Signal Separation and Interference Rejection
- Joint Source-channel Coding for Wireless Communications
- Wireless Propagation and Channel Characterization
- Network Coding
- Power Control and Radio Resource Management
- Cross-Layer Design and Adaptation
- Resource Allocation and Interference Management
- Opportunistic Scheduling
- Wireless Multicasting
- Mobility and Localization Techniques
- Coexistence in Unlicensed Spectra
- Energy Efficiency Design
- Wireless Multimedia and QoS
- Smart Grid Communication
- Fixed Wireless Broadband Access Systems
- Mobile Cellular Networks (UMTS, LTE, IMT-advanced, ...)
- DVB, DAB and Broadcast Networks
- Advances in Millimeter Wave Wireless LANs and PANs
- Standardization on Wireless Systems
- Wireless Communication Testbed