

## CALL FOR PAPERS

**IEEE WCNC** is the premier event for wireless communications researchers, industry professionals, and academics interested in the latest development and design of wireless systems and networks. Sponsored by the IEEE Communications Society, IEEE WCNC has a long history of bringing together industry, academia, and regulatory bodies. In 2014, Istanbul will become the wireless capital by hosting IEEE WCNC 2014. The conference will include technical sessions, tutorials, workshops, and technology and business panels. You are invited to submit papers in all areas of wireless communications, networks, services, and applications. The instructions for authors will be posted on the conference website [www.ieee-wcnc.org/2014](http://www.ieee-wcnc.org/2014). Potential topics include, but are not limited to:

### Track 1: PHY and Fundamentals

- Interference characterization
- Cognitive radio, ultra-wideband
- Multihop and cooperative communications
- Modulation, coding, diversity
- Equalization, synchronization, channel estimation
- Space-time coding, MIMO, adaptive antennas
- OFDM, CDMA, spread spectrum
- Channel modeling and characterization
- Interference cancellation and multiuser detection
- Iterative techniques
- Information-theoretic aspects of wireless communications
- Signal processing for wireless communications
- Propagation models for high frequency channels

### Track 3: Mobile and Wireless Networks

- Localization for Wireless Networks
- Network Estimation and Processing Techniques
- Mesh, Relay, Sensor and Ad Hoc Networks
- Mobility, location, and handoff management
- Mobile and Wireless IP
- Wireless Multicasting, Routing
- Robust routing
- Multimedia QoS and Traffic Management
- Wireless Broadcast, Multicast and Streaming
- Congestion and Admission Control
- Proxies and Middleware for Wireless Networks
- Wireless Network Security and Privacy
- Performance of E2E Protocols over Wireless Networks
- Interworking Heterogeneous Wireless/Wireline Networks
- Capacity, Throughput, Outage, Coverage

### Track 2: MAC and Cross-Layer Design

- Multiple access techniques
- Cognitive and cooperative MAC
- Collaborative algorithms
- MAC for mesh, ad hoc, relay, and sensor networks
- Network information theory
- Radio resource management and allocation, scheduling
- Cross-layer design, cross-layer security
- Software defined radio, RFID
- Adaptability and reconfigurability
- Wireless MAC protocols: design and analysis
- B3G/4G Systems, WiMAX, WLAN, WPAN
- QoS provisioning in MAC

### Track 4: Services, Applications, and Business

- Emerging wireless/mobile applications
- Context and location-aware wireless services & applications
- Wireless telemedicine and e-health services
- Intelligent transportation systems
- Cognitive radio and sensor-based applications
- Content distribution in wireless home environment
- Wireless emergency and security systems
- Service oriented architectures, service portability
- SIP based services, multimedia, QoS support, middleware
- Innovative user interfaces, P2P services for multimedia
- Dynamic services, autonomic services
- Regulations, standards, spectrum management
- Test-bed and prototype implementation of wireless services
- Personalization, service discovery, profiles and profiling

### CALL FOR TUTORIALS AND WORKSHOPS

Proposals for tutorials and workshops are solicited on hot topics for future wireless communications systems and applications.

### CALL FOR PANELS

Panel proposals are also solicited on technical, business and policy-related issues and opportunities for the wireless communications industry.

### IEEE and IEEE COMMUNICATIONS SOCIETY POLICIES

To ensure appropriate consideration of conflicts of interest during the review process, the ComSoc prohibits changes to the list of authors once a paper has been submitted for review during review, revision, or (if accepted) final publication. The author list may be changed only prior to the submission deadline.

To be published in the IEEE WCNC 2014 Conference Proceedings and IEEE Xplore®, an author of an accepted paper is required to register for the conference at the full (member or non-member) rate and the paper must be presented by an author of that paper at the conference unless the TPC Chair grants permission for a substitute presenter arranged in advance of the event and who is qualified both to present and answer questions. Non-refundable registration fees must be paid prior to uploading the final IEEE formatted, publication-ready version of the paper. For authors with multiple accepted papers, one full registration is valid for up to 3 papers. Accepted and presented papers will be published in the IEEE WCNC 2014 Conference Proceedings and in IEEE Xplore®.

## IMPORTANT DATES

**Paper submission deadline:** 15 September 2013  
**Notification of acceptance:** 15 December 2013  
**Final Camera-ready papers due:** 12 January 2014

**Tutorial proposals:** 15 September 2013  
**Workshop proposals:** 28 June 2013  
**Panel proposals:** 15 September 2013

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