IEEE WCNC is the premier wireless event for 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 2013, the paradisiacal city of Shanghai, China will become the wireless capital by hosting IEEE WCNC 2013.

IEEE WCNC 2013 will include technical sessions, tutorials, workshops, exhibitions and technology and business panels. You are invited to submit papers in all areas of wireless communications, networks, services, and applications. Potential topics are solicited in, but are not limited to, the following categories:

### I. PHY TRACK
- Cognitive radio network and dynamic spectrum access
- Multihop, cooperative and distributed communications
- Modulation, channel coding, diversity
- Equalization, synchronization
- Space-time, MIMO, adaptive antennas
- OFDM/OFDMA, CDMA, spread spectrum
- Channel modeling and characterization
- Interference management and MUD
- Iterative techniques
- Information-theoretic aspects of wireless communications
- Signal processing for wireless communications
- Ultra-Wide Bandwidth communications
- Multi-cell cooperation and processing

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

### III. NETWORKS TRACK
- Position location
- Energy efficient network protocol design
- Mobility, location, and handoff modeling and management
- Wireless routing
- Clustering in mesh, relay, sensor, and ad hoc networks
- Network coding in mesh, relay, sensor, and ad hoc networks
- Multimedia QoS and traffic management
- Wireless broadcast, multicast, and streaming
- Congestion and admission control
- Wireless network security and privacy
- Interworking heterogeneous wireless/wireline networks
- Vehicle-to-vehicle communication

### IV. SERVICES & APPLICATIONS TRACK
- 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, peer-to-peer services for multimedia
- Dynamic services, autonomic services
- Regulations, standards, spectrum management
- Personalization, service discovery, profiles and profiling

**CALL FOR TUTORIALS/WORKSHOPS**
Proposals for half/full day tutorials/workshops are solicited based on the topics listed above or others related to issues and opportunities for the future of wireless systems and applications.

**CALL FOR PANELS**
Proposals are solicited for technology/business application panels in the above topical areas or others related to business and policy-related issues and opportunities for the wireless communications industry.

**IMPORTANT DATES**
- Full Paper Submission: 22 September 2012
- Workshop Proposal Submission: 8 July 2012
- Tutorial Proposal Submission: 22 September 2012
- Panel Proposal Submission: 22 September 2012
- Acceptance Notification: 8 December 2012
- Final Camera Ready Copy: 8 January 2013

**General Chair:** Xiaohu You, Southeast University  
**Vice-chair:** Zhengmao Li, China Mobile Inc  
**Vice-chair:** Xi Zhang, Texas A&M University

**TPC Chair:** Jiangzhou Wang, University of Kent  
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**Vice-chair:** Lie-Liang Yang, University of Southampton