Call for Papers for
Wireless Networking Symposium

Scope and Motivation:

Wireless networks are expected to encompass heterogeneous access technologies and the Internet backbone for providing services to both mobile and stationary users. It poses significant technical challenges to enable broadband wireless access with seamless and ubiquitous coverage and quality-of-service provisioning. The objective of this symposium is to serve as an international forum for experts from academia and industry to exchange ideas and results on research and development, and to promote and accelerate standardization, applications, and services of current and future wireless networks. Prospective authors are invited to submit original contributions on all aspects of wireless networks, applications and services, including, but not limited to, the following topics of interest. Please note that this Symposium focuses on research problems above the physical layer (although papers on cross-layer design/optimization are welcome). Papers solely addressing wireless communications problems at the physical layer should be submitted to other relevant symposia of IEEE ICC 2012.

Topics of Interest

The Wireless Networking Symposium seeks original contributions in, but not limited to, the following topical areas:

Wireless access, network architecture, and standards

- Network architecture

- Network planning
- Broadband wireless access
- Cellular networks
- B3G/4G wireless networks
- WiMAX networks
- Wireless mesh networks
- Wireless local area networks
- Wireless personal area networks
- Ultra-wideband networks
- Cognitive wireless networks
- Reconfigurable wireless networks
- Multimode wireless networks
- Vehicular wireless networks
- Home entertainment networks
- All-IP networks
- Ubiquitous coverage
- Integration of heterogeneous wireless and wireline networks

Network design, control, and performance

- Capacity analysis
- Quality-of-service provisioning
- Radio resource allocation
- Mobility, handoff, and location management
- Medium access control
- Traffic scheduling
- Access and admission control
- Routing
- Flow control and congestion control
- Energy efficiency
- Network clustering
- Network performance analysis
- Multimedia communications
- Traffic modeling and traffic management
- Cross-layer design and optimization
- Distributed control and management
- End-to-end protocols and performance
- Protocols and algorithms
- Power saving protocols
- Pricing and billing

Experiments, Applications, and Services

- Multimedia applications over wireless networks
- Emerging wireless technologies
- New services and applications
- IPTV
- Measurements, testbeds, and deployment

- Wireless network standardization activities

Sponsoring Technical Committees:

- Wireless Communications
- Ad Hoc and Sensor Networks
- Information Infrastructure