

CALL FOR PAPERS

IEEE GLOBECOM 2011 – Wireless Networking Symposium

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Scope of the Symposium

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, industry and government 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 GC 2011.

List of Topics

Wireless access, network architecture, and standards

Network architecture
Network planning
Broadband wireless access
Cellular networks
B3G/4G wireless networks
LTE/WiMAX networks
Wireless ad hoc and mesh networks
Wireless local area networks
Wireless personal area networks
Ultra-wideband networks

Wireless sensor networks
Cognitive wireless networks
Self-organizing networks
Reconfigurable wireless networks
Multimode wireless networks
Vehicular wireless networks
Home entertainment networks
Smart grid networks
Home area networks
Neighborhood area networks

60 GHz mmWave networks
Femtocell/Pico cell Networks
Free Space Optical 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
Protocols and algorithms
Power saving protocols
Pricing and billing
Game theory for wireless networking

Experiments, Applications, and Services

Multimedia over wireless networks
Emerging wireless services and applications
IPTV

Measurements
Testbeds and deployment
Wireless network standardization activities

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