CALL FOR PAPERS

AD HOC AND SENSOR NETWORKING SYMPOSIUM

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Scope and Topics of Interest

Recent advancements in wireless technologies have enabled networked solutions for many unconventional civil and military applications. In recent years, ad-hoc networks have been attracting increased attention from the research and engineering communities, motivated by applications like digital battlefield, asset tracking, air-borne safety, situational awareness, and border protection. Similarly, advances in micro-electro-mechanical devices and large-scale integration have enabled the realization of miniaturized sensor nodes that can probe their surroundings and transmit their measurements using on-board wireless transceivers. Large-scale networks of miniaturized sensor nodes may also enable new applications such as target tracking, security surveillance, elder care, and forest monitoring. Both ad-hoc and sensor networks are characterized by their dynamic nature, which requires them to be adaptive to changes in the application environment, task objectives, and topological changes, among others. The last few years have witnessed the development of many innovative solutions for ad-hoc and sensor networks that are maturing to the level of commercialization and standardization. Yet, numerous challenges remain for the implementation of practical solutions that operate robustly, securely, and efficiently. The Ad Hoc and Sensor Networking Symposium of GLOBECOM'2013 opts to foster a forum for sharing ideas and recent results among researchers and practitioners working on state-of-the-art solutions related to ad-hoc and sensor networks. We are soliciting papers that describe original and unpublished contributions. Topics of interest include, but are not limited to:

- New and unconventional applications of ad hoc and sensor networks
- Novel architectures and operation models
- Wireless sensor and actor networks
- Wireless multimedia and 3-D sensor networks
- Underwater and underground sensor networks
- Body Area Sensor Networks
- Cognitive radio networks in multi-hop environments
- Wireless mesh and community networks
- Wireless PANs and LANs
- Pervasive and wearable computing
- RFID systems
- Delay-tolerant ad hoc networks

- Self-organization and autonomic networking
- Vehicular networks
- Co-existence issues of hybrid networks
- Wireless, ad hoc, and sensor devices
- Ultra wide band technology for ad hoc and sensor networks
- MAC protocols for ad hoc and sensor networks
- Frequency and channel allocation algorithms
- New standards for ad hoc and sensor networks
- Energy saving and power control protocols for ad-hoc and sensor networks
- Energy scavenging technologies
- Service discovery in ad-hoc and sensor networks
- Location and context aware services
- Scheduling and resource management algorithms
- Deployment and coverage analysis of sensor networks
- Localization algorithms and ranging technologies
- Routing and multicasting protocols
- Topology control and management
- In-network processing and data storage
- Fault-tolerance and traffic reliability issues
- Cross-layer design and optimization
- Mobility management and modeling
- Synchronization and coordination techniques in ad hoc and sensor networks
- Security for ad hoc and sensor networks
- Integrated simulation and measurement based evaluation
- Experimental prototypes and testbeds
- New simulation languages, programming abstractions, and tools for ad hoc and sensor networks"

Submission Guidelines

Prospective authors are invited to submit original technical papers by the deadline of **15 March 2013** for publication in the IEEE Globecom 2013 Conference Proceedings and for presentation at the conference. Submissions will be accepted through EDAS. All submissions must be written in English and be at most six (6) printed pages in length, including figures. For full details, please visit the following website:

http://www.ieee-globecom.org/2013/submguide.html