



## CALL FOR PAPERS

### **Fourth Annual IEEE Communications Society Conference on Sensor, Mesh and Ad Hoc Communications and Networks IEEE SECON 2007**

**Merged with IEEE International Workshop on Wireless Ad-hoc and Sensor Networks (IWWAN)**

**June 18-21, 2007, San Diego, California, USA**

<http://www.ieee-secon.org/>

IEEE SECON will provide a unique forum for attendees to exchange ideas, techniques and applications, discuss best practices, raise awareness, and share experiences among researchers, practitioners, standard developers and policy makers in the field of sensor, ad-hoc, and mesh networks and systems. SECON grew out of IEEE INFOCOM in 2004 to create an event that focused on the important and exciting topics of sensor, mesh and ad-hoc communications and networks. This year, SECON has been merged with the IEEE International Workshop on Wireless Ad-hoc and Sensor Networks (IWWAN).

#### IMPORTANT DATES

**Paper registration: November 30, 2006 (11:59pm PST)**

**Paper submission: December 7, 2006 (11:59pm PST)**

**Decision notification: February 26, 2007**

**Camera ready paper due: March 22, 2007**

Technical papers that describe original, previously unpublished research dealing with the communications, networking, applications, systems, and algorithmic aspects of sensor, ad-hoc, and mesh networks, as well as those that describe experimental efforts, practical experiences, and industrial/commercial developments in these areas are solicited for presentation at the conference and publication in the proceedings. Papers presenting novel contributions in related disciplines such as wireless embedded systems, middleware, and information management are also solicited. Papers should not be concurrently under review at any another symposium, conference, or journal. Topics of interest include, but are not limited to:

- Architectures and protocols to support wireless communication, localization, time synchronization, data routing, data dissemination, and other distributed services in heterogeneous, large-scale, distributed mesh and sensor networks
- Algorithms and theories for management, supervisory control, and monitoring of distributed ad-hoc networks, and techniques for the interpretation and use of sensor data in decision-making processes
- Theories and models on fundamental information and communication aspects of wireless mesh and sensor networks
- Mechanisms for authenticated, secure communication and data dissemination in sensor and mesh networks
- Algorithms and protocols to support quality of service in mesh and sensor networks, including admission control, resource allocation and fairness, and capacity planning
- Performance measurement and modeling techniques for large-scale distributed ad-hoc and sensor networks and their evaluation
- Integration of sensors into engineered systems, including techniques for exploiting on-sensor renewable power sources, mechanisms for online self-calibration and self-testing, and schemes to maximize accuracy and minimize false alarms
- Hardware platforms and test-beds incorporating multiple sensors, embedded processors, actuators, and wireless interfaces
- Software architectures, middleware, and tools for mesh and sensor network application development, deployment, and management
- Case-studies and real-world experiences in designing and deploying large scale ad-hoc, mesh, and sensor network applications

#### **PAPER SUBMISSION INSTRUCTIONS:**

Paper submissions will be handled electronically through the EDAS web-based system. Details about the submission process including formatting instructions and templates will be available at the conference website. Accepted papers will be published in the conference proceedings and will be archived on IEEE Xplore. IEEE Communications Society policy mandates that all accepted SECON 2007 papers must have at least one associated registration at the regular rate. For authors co-authoring multiple papers, one regular registration is valid for up to three papers.

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