CALL FOR PAPERS

IEEE

IEEE COMMUNICATIONS SOCIETY

Sponsored by: IEEE Communications Society

SECON

Third Annual IEEE Communications Society Conference on Sensor, Mesh and Ad Hoc Communications and Networks

September 25 - 28, 2006, Reston, Virginia, USA
www.ieee-secon.org/2006/

Paper Submission Deadline: April 12, 2006 (Title/Abstract Registered by April 6, 2006)
Industry Participation is Strongly Encouraged.

The third annual **IEEE SECON** conference will provide a unique forum 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. IEEE SECON grew out of **IEEE INFOCOM** (www.ieee-infocom.org) in 2004, in order to create an event that focused on the important and exciting topics of Sensor, Mesh and Ad Hoc Communications and Networks.

The conference will be organized to provide for collegiality and continuity in the discussions of the various topics among participants from the industrial, governmental and academic sectors.

Original technical papers that address the communications, networking, applications, systems and algorithmic aspects of mesh and sensor networks, as well as those that describe practical deployment and implementation experiences are solicited for presentation at the conference and publication in the conference proceedings. Papers presenting novel contributions in such disciplines as communications, networking protocols and architectures, algorithms, embedded systems, middleware and information management, and novel applications are solicited.

TOPICS OF INTEREST

- New architectures and protocols to support communication, localization, time synchronization, routing, data dissemination, and other distributed services in heterogeneous, large-scale distributed, mesh networks and sensor networks
- Novel 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
- Modeling and performance evaluation of large-scale distributed ad hoc and sensor networks, practical implementations and deployments, and real-world experiences
- 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
- Integration of sensors into engineered systems, including novel techniques for on-sensor renewable power sources, mechanisms for on-sensor self-calibration and self-testing, and efficient schemes to maximize accuracy and minimize false alarms
- Hardware platforms incorporating multiple sensors, computation, actuation, and wireless interfaces
- Software platforms, middleware, and tools for mesh and sensor network applications development, deployment, and management

PANELS

Proposals for tutorials and panels on current topics in the field of sensor, mesh, and ad hoc networking are solicited. Panels related to the commercial applications are especially encouraged.

POSTERS, DEMONSTRATIONS AND EXHIBITS

IEEE SECON 2006 will include poster/demonstration sessions that shall provide a forum to present and discuss: works in progress, industry demonstrations of new applications and techniques, practical implementations, industrial and commercial developments, research testbeds and demonstrations, recent research/implementation results, upcoming research challenges, future directions, and novel approaches in the fields of sensor, mesh and ad hoc communications and networks. Submissions should not be more than three pages in length.

SUBMISSION INSTRUCTIONS

All paper submissions will be handled electronically through the EDAS system. Details regarding the paper format and the submission process will be announced shortly at http://www.ieee-secon.org/2006/index.html.

Accepted papers will be published in the conference proceedings and will appear on IEEE Xplore. IEEE Communications Society policy states that all accepted SECON 2006 papers must have at least one registration at the regular rate. For authors co-authoring multiple papers, one regular registration is valid for up to three papers.

IMPORTANT DATES

Paper registration	April 6, 2006
Full paper submission	April 12, 2006
Decision notification	June 15, 2006
Camera ready paper due	July 7, 2006
Panel proposals due	May 1, 2006
Demo proposals due	June 1, 2006
Poster proposals due	June 30, 2006

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