CALL FOR PAPERS

IEEE MASS 2011

The 8th IEEE International Conference on Mobile Ad-hoc and Sensor Systems

October 17-21, 2011, Valencia (Spain)

http://mass2011.upv.es

General Co-Chairs:
Jaime Lloret, Universidad Politecnica de Valencia, Spain
Ivan Stojmenovic, University of Ottawa, Canada

Program Co-Chairs:
Silvia Giordano, SUPSI, University of Applied Science, Switzerland
Yunhao Liu, HKUST, Hong Kong

TPC Vice Chairs:
Hannes Frey, University of Paderborn, Germany
Xiang-Yang Li, IIT, Chicago, USA
Jelena Misic, Ryerson University, Canada
Thorsten Strufe, TU Darmstadt/CASED, Germany

Workshop Co-Chairs:
Symeon Papavassiliou, National Technical University of Athens, Greece
David Simplot-Ryl, INRIA, Lille, France

Demo Co-Chairs:
José Pelegrí, Universidad Politecnica de Valencia, Spain
Pedro M. Ruiz, University of Murcia, Spain

Web Chairs:
Fernando Boronat, Universidad Politecnica de Valencia,Spain
Mario Montagud, Universidad Politecnica de Valencia, Spain

Submission Chair:
Xu Li, University of Ottawa, Canada

Finance and Registration Chair:
Zhen Jiang, West Chester University, USA

Publication Chair:
Dajin Wang, Montclair State University, USA

Publicity Chairs:
Jiming Chen, Zhejiang University, Hangzhou, China
Natalie Mitton, INRIA, Lille, France
My T. Thai, University of Florida, Gainesville, USA

Local Arrangements Chairs:
Miguel Garcia, Universidad Politecnica de Valencia, Spain
Sandra Sendra, Universidad Politecnica de Valencia, Spain

Steering Committee Chair:
Dharma P. Agrawal, University of Cincinnati, USA

Award Chair:
Stefano Basagni, Northeastern University, Boston, USA

IEEE Computer Society TC on Distributed Processing:
Jie Wu, Temple University, USA

IEEE Computer Society TC on Simulation:
Dave Cavalcanti, Phillips Research, USA

Important Dates
Abstract Due: March 30, 2011 (extended deadline)
Manuscripts Due: April 13, 2011 (extended deadline)
Acceptance Notification: June 17, 2011
Camera-ready Submission: August 12, 2011

Scope:
The 8th IEEE International Conference on Mobile Ad-hoc and Sensor Systems (IEEE MASS 2011) is to be held in Valencia, Spain, on October 17-21, 2011. Wireless ad-hoc communication has applications in a variety of environments, such as conferences, hospitals, battlefields and disaster-recovery/rescue operations, and is also being actively investigated as an alternative paradigm for Internet connectivity in both urban and rural areas. Wireless sensor and actuator networks are also being deployed for enhancing industrial control processes and supply-chains, and for various forms of environmental monitoring. The IEEE MASS 2011 aims at addressing advances in research on multi-hop ad-hoc and sensor networks, covering topics ranging from technology issues to applications and test-bed development.

Topics of interest:
Original, unpublished contributions are solicited in all aspects of (mobile) ad-hoc networks and wireless sensor networks (WSN), systems and applications. Topics include, but are not limited to:

- Vehicular networks and protocols
- Wireless mesh networks and cognitive networks
- MAC layer design for ad-hoc networks and WSNs
- MAC protocols (802.11, 802.15.4, UWB)
- Multi-channel, multi-radio and MIMO technologies
- Cross layer design and optimization
- P2P, overlay, and content distribution architectures for ad-hoc and sensor networks
- Delay tolerant networks and opportunistic networking
- Power-aware architectures, algorithms and protocols design
- Clustering, topology control, coverage and connectivity
- Routing protocols (unicast, multicast, broadcast, geocast)
- Data transport and management in WSNs
- Data gathering, fusion, and dissemination in WSNs
- Localization and synchronization in WSNs
- Cooperative sensing in WSNs
- Capacity planning and admission control in ad-hoc and sensor networks
- Handoff / mobility management and seamless internetworking
- Resource management and wireless QoS Provisioning
- Key management, trust establishment in wireless networks
- Security and privacy issues in ad hoc and sensor networks
- Reliability, resiliency and fault tolerance techniques
- Security, privacy issues in vehicular, DTNs, and mesh networks
- Operating systems and middle-ware support
- Novel applications and architectures for WSNs
- Modeling, analysis and performance evaluation
- Measurements and experience from experimental systems and test-beds

Submission guidelines:
All submissions must be full papers in PDF format and uploaded on EDAS.
They must not exceed 10 single-spaced, double-column pages using 10 pt size fonts on 8.5 x 11 inch pages in IEEE style format.

Workshops:
Proposals for full day workshops are solicited. Selections will be made considering the expertise and experience of the workshop organizers and the relevance of the topic to the central theme of the conference. Proposals of at most 4 pages, including a 1-page biographical sketch, should be submitted to the Workshops Chair by March 30, 2011.

Demos:
Real-world experimentation has proven to be an indispensable methodology to evaluate mobile ad hoc and sensor systems. Furthermore, early prototyping is an outstanding way to understand end user requirements and help adoption of wireless ad hoc technologies by the mass market. With this brief background, IEEE MASS solicits demonstrations of mobile ad hoc and sensor systems showing real-systems prototypes at work, thus stimulating discussions among the attendees. Abstract of demos should be submitted by June 26, 2011.