



PRELIMINARY CALL FOR PAPERS
**The 2nd IEEE International Conference on Mobile Ad-hoc and
Sensor Systems (MASS-2005), November 7-10, 2005**
The City Center Hotel, Washington, DC
<http://www.mass05.wpi.edu/>



IEEE



**IEEE
COMMUNICATIONS
SOCIETY**



Sponsored by

**IEEE-CS Technical Committee on Distributed Processing, IEEE-CS Technical Committee
on Simulation, IEEE Communications Society, DARPA, NSF and Army Research Office**

Regular Papers

Research on wireless networks and mobile computing has until recently concentrated on single-hop networks (network nodes communicating directly to a fixed infrastructure), such as cellular or satellite systems. Ad-hoc and sensor networks cover multi-hop scenarios (network nodes communicating via other network nodes) such as conference, hospital, battlefield, rescue, and monitoring scenarios. This conference covers the area of ad-hoc and sensor systems, from physical issues up to the applications aspects.

Possible topics of interest include, but are not limited to:

- MAC protocols for ad-hoc and sensor networks (802.11, Bluetooth, etc)
- Routing protocols (unicast, multicast, broadcast, geocast, etc)
- Power-aware and energy-efficient design
- QoS, security, and fault-tolerant issues
- Location and mobility management
- Topology construction and coverage maintenance
- Distributed Algorithms (self-configuration, scheduling, synchronization, etc)
- Data gathering, fusion, and dissemination
- Operating system and middleware support
- Complexity analysis of algorithms
- Analytical, mobility, and validation models
- Applications of ad-hoc and sensor networks

Poster Papers

Poster session will be held to present recent results. This will also serve as a forum for discussions and mutual interaction on ongoing research, and it could possibly enhance interaction and foster collaboration among researchers from academia and industries. Submission should be limited to four pages, summarizing the main ideas and contributions.

Workshop Proposals

Proposals for full day workshops are also solicited on specific topic areas. The selection would depend on the uniqueness and importance of the topic, the necessary background information and potential for its success.

Special Issue

High quality papers from this conference will be invited for publication in a special issue of International Journal of Wireless Information Networks.

Important Dates

| | |
|------------------------------|-----------------|
| Manuscript Submission due: | May 8, 2005 |
| Workshop Proposals due: | April 30, 2005 |
| Acceptance Notification due: | July 22, 2005 |
| Final Manuscript due: | August 26, 2005 |

Submission Guidelines

All submissions will be handled electronically. Authors should prepare a PDF or PS of their full papers and submit them through EDAS (<http://www.edas.info>). For further information visit <http://www.mass05.wpi.edu/submission.htm>

General Chair

Kaveh Pahlavan, Worcester Polytechnic Institute, USA

Technical Program Co-Chairs

Ryuji Kohno, Yokohama National University, Japan
Mukesh Singhal, University of Kentucky, USA
Ramjee Prasad, Aalborg University, Denmark

Technical Program Vice Co-Chairs

Ian Oppermann (Applications), University of Oulu, Finland
Abbas Jamalipour (Network and Higher Layers), University of Sydney, Australia
Shigang Chen (Reliability and Security Issues), University of Florida, USA
Guohong Cao (Algorithms and Topology), Pennsylvania State University, USA
Arup Acharya (MAC and Lower Layers), IBM TJ Watson Research Center, USA

Workshop Chair

Ivan Stojmenovic, University of Ottawa, Canada

Finance/Registration Chair

Wenjing Lou and Allen Levesque, Worcester Polytechnic Institute, USA

Publications Chair

Prasanth Krishnamurthy, University of Pittsburgh, USA

Publicity Chairs

Xinrong Li, University of North Texas, USA
Jacques Beneat, Norwich University, USA
Timo Bräysy, University of Oulu, Finland
Weijia Jia, City University of Hong Kong

Local Arrangements Co-Chairs

Xiuzhen Cheng, George Washington University, USA
Jiang Li, Howard University, USA

Chair Steering Committee

Dharma P. Agrawal, University of Cincinnati, USA

IEEE-CS TC Chairs

Chita Das (Distributed Processing) and Anup Kumar (Simulation)

Industry Liaison

Jorma Lilleberg, Nokia, Finland
Sastri Kota, Harris Corporation, USA

Technical Program Committee Members

Hamid Aghvami, King's College, University of London, UK
Dharma P. Agrawal, University of Cincinnati, USA
Ramon Agusti, Universitat Politècnica de Catalunya, Spain
Nirwan Ansari, New Jersey Institute of Technology, USA
Stefano Basagni, Northeastern University, USA
Timo Bräysy, University of Oulu, Finland
Andrew Campbell, Columbia University, USA
Guohong Cao, Pennsylvania State University, USA
Surendar Chandra, University of Notre Dame, USA
Samir Chatterjee, Claremont Graduate University, USA
Xiuzhen Cheng, George Washington University, USA
Sunghyun Choi, Seoul National University, Korea
James Conrad, University of North Carolina at Charlotte, USA
Marco Conti, Istituto di Informatica e Telematica, Italy
Carlos Cordeiro, Philips Research, USA
Hasan Çam, Arizona State University, USA
Sajal Das, University of Texas at Arlington, USA
Jing Deng, University of New Orleans, USA
P. S. Dhekne, BARC, India
Arjan Duresi, Louisiana State University, USA
Romano Fantacci, University of Florence, Italy
Huirong Fu, North Dakota State University, USA
Savo Glisic, University of Oulu, Finland
Marco Gruteser, Rutgers University, USA
Thomas Hou, Virginia Tech, USA
Steven Howard, Qualcomm, USA
Robert Hsieh, University of New South Wales, Australia
Fei Hu, Rochester Institute of Technology, USA
Sridhar Iyer, Indian Institute of Technology, India
Nei Kato, Tohoku University, Japan
Sastri Kota, Harris Corporation, USA
Ajay D. Kshemkalyani, University of Illinois at Chicago, USA
Anup Kumar, University of Louisville, USA
G. S. Kuo, National Chengchi University, China
P. Krishnan, Avaya Research Labs, USA
Dhananjay Lal, Bosch Research, USA
Pentti Leppanen, University of Oulu, Finland
Baochun Li, University of Toronto, Canada
Jie Li, University of Tsukuba, Japan
Qun Li, College of William and Mary, USA
Tieyan Li, Institute for Infocomm Research, Singapore
Xiang-Yang Li, Illinois Institute of Technology, USA
Ben Liang, University of Toronto, Canada
Renato Lo Cigno, University of Trento, Italy
Pascal Lorenz, University of Haute Alsace, France
Chenyang Lu, Washington University in St. Louis, USA
Haiyun Luo, University of Illinois at Urbana Champaign, USA
Mario Marchese, CNIT - University of Genoa, Italy
Brian Mark, George Mason University, USA
Jose Marzo, University of Girona, Spain
Perkins Matthew, Motorola, USA
Antonella Molinaro, University of Calabria, Italy
Mario Muñoz, Carlos III University of Madrid, Spain
Siamak Naghian, Nokia, Finland
Sanjiv Nanda, Qualcomm, USA
Hung Q. Ngo, State University of New York at Buffalo, USA
Dragos Niculescu, NEC Labs, USA
Stephan Olariu, Old Dominion University, USA
Andrzej R. Pach, AGH UST, Poland
Ravi Prakash, University of Texas at Dallas, USA
Ramjee Prasad, Aalborg University, Denmark
Veselin Rakocevic, City University, UK
Pamash Ramanathan, University of Wisconsin, USA
Dipankar Raychaudhuri, Rutgers University, USA
Sumit Roy, University of Washington, USA
Ashutosh Sabharwal, Rice University, USA
Apostolis Salkintzis, Motorola, Greece
Oriol Sallent, Universitat Politècnica de Catalunya, Spain
Saswati Sarkar, University of Pennsylvania, USA
Andreas Savvides, Yale University, USA
Sherman Shen, University of Waterloo, Canada
Nirmala Shenoy, Rochester Institute of Technology, USA
Rajeev Shorey, IBM India Research Labs, India
Biplab Sikdar, Rensselaer Polytechnic Institute, USA
Violet Syrotiuk, Arizona State University, USA
Vahid Tarokh, Harvard University, USA
Robert Tingley, Drapers Labs, USA
Chai K. Toh, University of London, UK
Christian Tschudin, University of Basel, Switzerland
Yu-Chee Tseng, National Chiao Tung University, Taiwan
Athanasios Vasilakos, University of Thessaly, Greece
David Wagner, University of California at Berkeley, USA
Peng-Jun Wan, Illinois Institute of Technology, USA
Shiuh-Jeng Wang, Central Police University, Taiwan
Yu Wang, University of North Carolina at Charlotte, USA
Cedric Westphal, Nokia Research Center, USA
Hongyi Wu, University of Louisiana, USA
Jie Wu, Florida Atlantic University, USA
Guoliang Xue, Arizona State University, USA
Jun Zheng, University of Ottawa, Canada
Hao Zhu, Florida International University, USA
Sencun Zhu, Pennsylvania State University, USA