

Call for Papers

The 1st International Workshop on Advances in Sensor Networks 2006 (IWASN 2006)

July 17, 2006 - San Jose, California, USA

<http://www.iwasn.org>

to be held in conjunction with:

The 3rd Annual International Conference on Mobile and Ubiquitous
Systems: Networks and Services
(MOBIQUITOUS 2006)

<http://www.mobiquitous.org/>

*Accepted papers will be published in the conference proceedings and
the IEEE Digital Library*

*** [Technical Program \(PDF\)](#) ***

Important Dates

Paper Submission Deadline:

April 19, 2006 (Extended)

Notification of Acceptance:

May 28, 2006

Camera-Ready Submissions:

June 7, 2006

Workshop Chairs

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Scope of the Workshop

The 1st International Workshop on Advances in Sensor Networks (IWASN 2006) will bring together researchers from academia, industry and government to present and discuss recent work in this emerging field. IWASN draws upon many disciplines including signal and information processing, communication and information theory, networking and protocols, distributed and wireless computing, cooperative computing, array processing, machine learning, embedded systems design and information management.

Topics include, but are not limited to, the following:

- Experimental and Practical Sensor Networks
- Security and Manageability in Sensor Networks
- Application-oriented Sensor Networks
- Physical, Data-link and Network Layers as well as Cross-layer Designs for Sensor Networks
- Novel Infrastructure-less Sensor Networks
- Autonomous Sensor Networks
- Communications and Scalability of Wireless Sensor Networks (WSN)
- Localisation, Tracking and Surveillance
- Power Management
- Antenna Arrays in WSN
- Arrayed Wireless Sensor Networks
- Node Collaboration and Array Processing in Sensor Networks
- Application-specific Node Selection in WSN
- Channel Modelling and Transceiver Design in WSN
- Distributed Coding and Information Theory
- Distributed and Collaborative Signal Processing
- Network Coding and MIMO Techniques
- Ultra-Wideband (UWB) Sensor Networks
- Distributed Inference and Fusion
- Distributed and Localised Computing
- Quality of Service Provisioning in WSN
- Resource Management in WSN
- Computational Geometry and Graph Theory in Sensor Networks
- Topology Control and Coverage

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- Network Connectivity and Longevity
- Real Time Routing and Scheduling Protocols
- Self-organizing Sensor Networks and Autonomic Communications
- Energy-efficient Algorithm and Protocol Design
- Advanced Scalability Issues
- Fault-tolerant Issues
- Experimentation and Practical Issues
- Applications and Demonstrations

Why should you participate in this workshop?

Sensor networks have been an active research area in recent years. As more and more practical applications of sensor networks continue to emerge, the advances of sensor networks start to attract new interest. This workshop is an ideal platform to share a vision of where we are heading, interact and strongly advocate an exciting new avenue for researchers and practitioners in the field of communications. Further, the final program would consist of carefully selected - with at least three peer reviews - and high quality submissions with a large emphasis on new ideas rather than incremental contributions to the field. Submissions of shorter versions of full papers that can be submitted to other conferences/journal in the near future are discouraged.

Workshop Registration

Registration for the workshop will be handled through the registration process of [Mobiquitous](#).

How to submit a paper?

Paper submission will be handled electronically by the COCUS Conference Management System. In order to submit a paper you must first create a COCUS account.

1. Please go to the COCUS website:
<http://cocus.create-net.it/cocus/>
2. Click on "Register". Once you have an account, login and click on "Events' list".
3. Scroll down to find "**The 1st International Workshop on Advances in Sensor Networks**".
4. Choose the "Submit a paper" link.
5. Once the paper has been registered, please upload the manuscript by clicking "submit" on the right-hand side.

Formatting Guidelines

All paper submissions will be handled electronically. Authors should prepare an Adobe Acrobat PDF version of their full paper. Papers must be in English and not exceed 8 pages double column in IEEE conference format (US Letter size, 8.5 x 11 inches) including text, figures, tables and references. The font size must be 10 points. Please follow the IEEE conference paper format as given in these templates: [MS Word](#), [LaTeX \(Unix\)](#), or [LaTeX \(MS Windows\)](#). See [sample manuscript](#) as a visual aid for formatting and styles.