



CALL FOR PAPERS



The Fourth International Conference on Information Processing in Sensor Networks (IPSN'05)

April 24-27, 2005, UCLA, Los Angeles, California, USA

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The Fourth International Conference on Information Processing in Sensor Networks (IPSN 2005) will continue the success of the previous three conferences to bring together researchers from academia, industry, and government to present and discuss recent work in this emerging field. IPSN draws upon many disciplines including signal and image processing, information and coding theory, networking and protocols, distributed algorithms, wireless communications, machine learning, embedded systems design, and data bases and information management. The 2005 IPSN features two new components:

Works-in-Progress (WIP) Session. The aim of the shorter, less formal WIP Abstract submissions is to facilitate collaborations and to encourage new people to get into the field. WIP has a later submission date to accommodate latest results.

Special track on Platform Tools and Design Methods for Network Embedded Sensors (SPOTS), on April 27.

Topics covered in technical sessions of IPSN'05:

- Distributed & collaborative signal processing.
- Network protocols for sensor networks.
- Coding, compression, and information theory.
- Distributed query processing.
- Detection, classification, estimation, tracking.
- Sensor tasking and control.
- Networked sensing and control.
- Distributed control and actuation.
- In-network processing and aggregation.
- Distributed inference and fusion.
- Fault tolerance.
- Network coverage, connectivity & longevity.
- Data storage in sensor networks.
- Location and time service.
- Energy and resource management.
- Programming models and languages.
- Real-time scheduling.
- Security.
- Applications and demonstrations of sensor networks

Selected papers from the conference will be invited to submit to the ACM Transactions on Sensor Networks (<http://www.acm.org/TOSN>)

Important dates of paper submission:

Abstract Registration	November 12, 2004
Manuscript due	November 19, 2004
Acceptance Notification	January 28, 2005
Camera-ready Copy due	February 25, 2005

Demonstration and WIP deadlines can be found at the IPSN'05 website <http://www.ece.wisc.edu/~ipsn05/>.

Submission instructions at <http://www.ece.wisc.edu/~ipsn05/>