



Call For Research Demos



The Fourth International Conference on Information Processing in Sensor Networks (IPSN05) April 24-27, 2005, UCLA, Los Angeles, California, USA

**Sponsored by ACM SIGBED, and IEEE Signal Processing Society
(pending) partial financial support by NSF, and DARPA**

We are soliciting demonstrations of original research addressing the research areas covered by IPSN, including the topics shown below. Submissions pertaining to the Special track on Platform Tools and Design Methods for Network Embedded Sensors (SPOTS) are also welcome in this session. Submission of a separate paper, poster or Work-In-Progress talk to IPSN is *not* mandatory.

New Best of Demo Award An award of \$1000 will be given to the best demonstration, to be judged by a panel based on both the degree it advances sensor network technology and the quality of the demonstration. The award may be given to either a platform or main track submission.

Topics of interest

- 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
- Embedded system platforms, platform modeling and analysis tools
- Architectural design, modeling, optimization tools for sensor nodes

Submission Instructions:

Please send a abstract of 500 words or less to jreich@parc.com in plain text, Word, or PDF format. Try to describe concretely what your demo will consist of, as well as a summary of the underlying research content. Please also include the following details, as applicable (they don't count against the 500 words):

- Additional facility needs beyond 1 table, 1 easel and a 8'x8' space
- Power and internet connectivity requirements
- Setup time required
- Requirements for sensor nodes to be placed in remote locations
- Radio frequencies and protocols to be used

For further questions, please contact the demo chair, Jim Reich, at jreich@parc.com or 650 812-4630.

Important Dates

Demo Abstract Submission:	February 4, 2005
Notification of Acceptance:	March 4, 2005
Two-Page Web Abstracts:	April 1, 2005
Conference Dates:	April 24-27, 2005

An up-to-date version of this CFD and the IPSN Call for Papers can always be found at <http://www.ece.wisc.edu/~ipsn05/>