



CALL FOR RESEARCH DEMOS

The Fifth International Conference on Information Processing in Sensor Networks (IPSN06)

April 19-21, Nashville Marriot at Vanderbilt, Nashville Tennessee

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.

Best of Demo Award An award 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.

Large Scale Demos In addition to the standard desktop demos, this year we are also soliciting a few high quality large scale demos. These demos will take place in the Vanderbilt Football Stadium, located next to the conference hotel. Each accepted demo will have a two-hour time slot for practice on the day before the demonstration. For more details, contact the local arrangements chair.

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 andreas.savvides@yale.edu in plain text, 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, Andreas Savvides, at andreas.savvides@yale.edu, tel. 203 432-1275.

Important Dates

Demo Abstract Submission:	February 4, 2006
Notification of Acceptance:	March 4, 2006
Two-Page Web Abstracts:	April 1, 2006
Conference Dates:	April 19-21, 2006

An up-to-date version of this CFD and the IPSN Call for Papers can always be found at <http://www.cs.virginia.edu/~tnd7c/IPSN06>