

CALL FOR PAPERS

The Second ACM Conference on Embedded Networked Sensor Systems



SenSys 2004

November 3-5, 2004,

Baltimore, Maryland, USA (tentative)

<http://www.cis.ohio-state.edu/sensys04>

Sponsored by: ACM (SIGCOMM, SIGMOBILE, SIGARCH, SIGMETRICS, SIGOPS) and NSF

SenSys 2004 introduces a high caliber forum for research on systems issues in the emerging area of embedded, networked sensors. These distributed systems of numerous smart sensors and actuators will revolutionize a wide array of application areas by providing an unprecedented density and fidelity of instrumentation. They also present novel systems challenges because of resource constraints, uncertainty, irregularity, and scale. SenSys design issues span multiple disciplines, including wireless communication, networking, operating systems, architecture, low-power circuits, distributed algorithms, data processing, scheduling, sensors, energy harvesting, and signal processing. SenSys seeks to provide a cross-disciplinary venue for researchers addressing these networked sensor system design issues. SenSys 2004 is the second in a series of annual meetings with a highly selective single-track technical program and a hands-on research exhibition.

PAPERS:

Technical papers describing original, previously unpublished research are solicited. In general this conference is interested in papers that address system issues in embedded networked systems. Specific topics of interest include the following:

- * Network protocols for sensor networks
- * Applications of distributed sensor networks
- * Distributed database processing in sensor networks
- * Novel sensor node hardware and software platforms
- * Energy management in sensor networks
- * In-network processing and aggregation
- * Distributed and collaborative signal processing
- * Localization in time and space
- * Simulation and optimization tools
- * Fundamental limits and tradeoffs
- * Algorithms for self-configuration, maintenance, stabilization
- * Operating system and middleware for sensor networks
- * Sensor network testbed measurements and benchmarks
- * Distributed algorithms for sensor networks
- * Sensor network planning and deployment
- * Adaptive topology management
- * Data storage in sensor networks
- * Distributed actuation, control, and coordination
- * Distributed calibration in sensor networks
- * Security
- * Robustness
- * Programming and validation methodology

Please consult the program chairs at sensys04-pcchairs@enl.usc.edu for more information about the scope of the conference.

PAPER SUBMISSION INSTRUCTIONS

All submissions will be handled electronically and must be in PDF or PostScript. Papers must not exceed 14 pages (US "Letter" size, 8.5 x 11 inches) including text, figures and references in single or double column format. The font size must be at least 10 points. Accepted papers will be published in the conference proceedings. We will adopt a **double-blind process** for paper review, where the identities of the authors are withheld from reviewers. Authors' names and their affiliations must not be revealed or mentioned anywhere in the paper or in the Postscript or PDF file. Submitted papers should be original, unpublished work and not currently under review for any other conference or journal. Papers not following these guidelines will be rejected. Questions about the submission process should be directed to the Program Co-Chairs at sensys04-pcchairs@enl.usc.edu. More detailed submission instructions will be available at the conference website soon. Selected papers from the conference will be fast-tracked to the new ACM Transactions on Sensor Networks.

RESEARCH EXHIBITS & POSTERS

There will be a research exhibition and poster session. Submission details are available on the website.

IMPORTANT DATES

Paper Registration & Abstract: **April 2, 2004**
Notification of Acceptance: **June 29, 2004**

Paper Submission Deadline: **April 9, 2004**
Camera Ready Copy: **August 25, 2004**

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