

PRELIMINARY CALL FOR PAPERS

The First ACM Conference on Embedded Networked Sensor Systems

SenSys 2003

<http://www.cens.ucla.edu/sensys03/>

November 5-7, 2003, Los Angeles, California, USA



Sponsored by: ACM (Sigcomm, Sigmobile, Sigarch, Sigmetrics, Sigops), and NSF

SenSys 2003 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 connecting computational capabilities to the physical world have the potential to revolutionize a wide array of application areas by providing an unprecedented density and fidelity of instrumentation. They also present a host of novel systems challenges because of resource constraints, uncertainty, irregularity, and scale. SenSys design issues cut across multiple fields, including wireless communication, networking, operating systems, architecture, low-power circuits, distributed algorithms, data processing, scheduling, sensors, energy harvesting, and signal processing, so a holistic approach is required. SenSys seeks to provide a cross-disciplinary venue for researchers addressing the rich space of networked sensor system design issues to interact and exchange recent results. SenSys 2003 is the first of a planned series of annual meetings with a 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Technical papers describing original, previously unpublished research are solicited.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
- * 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
- * Security and Robustness in sensor networks
- * Operating system and middleware for sensor networks
- * 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
- * Applications of distributed sensor networks
- * Sensor network testbed measurements and benchmarks

Please consult the program chairs at sensys03-pcchairs@cens.ucla.edu if you are uncertain whether your paper is in the scope of the conference.

PAPER SUBMISSION INSTRUCTIONS

All submissions will be handled electronically and must be in PDF or PostScript file format. Papers must not exceed 15 pages (US "Letter" size, 8.5 x 11 inches) including text, figures and references in single-column, single-space 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 the 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. To submit a paper, please refer to the paper submission link at the conference website, <http://www.cens.ucla.edu/sensys03/>. Questions about the submission process should be directed to the Program Co-Chairs at sensys03-pcchairs@cens.ucla.edu. Selected papers from the conference will be forwarded for fast-track publication as journal papers in ACM/IEEE Transactions on Networking and ACM/Kluwer Mobile Networks and Applications (MONET).

RESEARCH EXHIBITS & POSTERS

There will be a research exhibition and poster session. Submission details will be provided at the conference website <http://www.cens.ucla.edu/sensys03/>.

IMPORTANT DATES

Paper Registration & Abstract:	April 1, 2003	Paper Submission Deadline:	April 8, 2003
Notification of Acceptance:	June 27, 2003	Camera Ready Copy:	August 1, 2003

CONFERENCE COMMITTEE

<i>General Co-Chairs:</i>	Ian Akyildiz (Georgia Tech.)	Deborah Estrin (UCLA)	
<i>Program Co-Chairs:</i>	David Culler (UC Berkeley)	Mani Srivastava (UCLA)	
<i>Demos & Exhibits Co-chairs:</i>	Fabio Silva (USC/ISI)	John Heidemann (USC/ISI)	
<i>Publicity Co-chairs:</i>	Erdal Cayirci (ITU)	Lynette Millett (NRC)	
<i>Student Posters Co-chairs:</i>	Bhaskar Krishnamachari (USC)	Sylvia Ratnasamy (Intel)	
<i>Finance Chair:</i>	David Jaquez (UCLA)	<i>Local Arrangements Chair:</i>	Bernie Dempsey (UCLA)
<i>Registration Chair:</i>	Suresh Singh (Portland State)	<i>Sponsorship Chair:</i>	Rajesh Gupta (UCSD)
<i>Student Travel Awards:</i>	R. Sivakumar (Georgia Tech.)	<i>Submission Process Chair:</i>	Dirk Grunwald (U. Colorado)

PROGRAM COMMITTEE

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STEERING COMMITTEE

Ian Akyildiz (Georgia Tech., Co-chair), **Deborah Estrin** (UCLA, Co-chair), **Victor Bahl** (Microsoft, Sigmobile Representative), **Craig Partridge** (BBN, Sigcomm Representative), and **Taieb Znati** (NSF)

For more information about SenSys 2003, please visit on the web at <http://www.cens.ucla.edu/sensys03/>, or send email to sensys03@cens.ucla.edu.