

=====

ACM SenSys 2008: Call for Papers
The 6th ACM Conference on Embedded Networked Sensor Systems
November 5-7, 2008
Raleigh, NC, USA
<http://sensys.acm.org/2008/>

=====

The 6th ACM Conference on Embedded Networked Sensor Systems (SenSys) is a highly selective, single-track forum for the presentation of research results on systems issues in the area of embedded, networked sensors. Distributed systems based on networked sensors and actuators with embedded computation capabilities enable an instrumentation of the physical world at an unprecedented scale and density, thus enabling a new generation of monitoring and control applications. This conference provides an ideal venue to address the research challenges facing the design, deployment, use, and fundamental limits of these systems. Sensor networks require contributions from many fields, from wireless communication and networking, embedded systems and hardware, distributed systems, data management, and applications, so we welcome cross-disciplinary work.

We particularly encourage papers that extend the scope of the conference beyond wireless mote-class sensor networks and we seek contributions from a broad range of sensing-related fields, such as actuator networks, RFID applications, mobile ad-hoc networks, camera networks, and others. We seek technical papers describing original, previously unpublished research results. Topics of interest include, but are not limited to, the following:

- Sensor network architecture and protocols
- Rich sensor systems leveraging RFID, mobile devices (e.g., cell phones), cameras, robotics, etc.
- Analysis of real-world systems and fundamental limits
- Sensor network planning, provisioning, calibration and deployment
- Deployment experience and testbeds
- Experimental methods, including measurement, simulation, and emulation infrastructure
- Programming methodology
- Operating systems
- Sensor network algorithms such as localization, routing, time synchronization, clustering, topology control, and coverage control algorithms
- Failure resilience and fault isolation
- Energy management
- Data, information, and signal processing
- Data storage and management
- Distributed actuation and control
- Applications
- Security and privacy
- Integration with back-end systems such as web-based information systems, process control, and enterprise software

Program Co-Chairs: Margaret Martonosi, Princeton University; Adam Wolisz, TU Berlin
Sponsored by ACM SIGCOMM, SIGMOBILE, SIGARCH, SIGOPS, SIGMETRICS and SIGBED; with support from NSF.

Important dates:

- Paper Registration and Abstract: April 7, 2008, 5pm US Eastern Time
- Paper Submission Deadline: April 14, 2008, 5pm US Eastern Time
- Notification of Paper Acceptance: July 18, 2008
- Camera Ready Paper Copy: August 25, 2008

All deadlines are firm; we will not honor extensions. Papers must be original, unpublished work not under consideration elsewhere. All submissions will be handled electronically and must be in PDF format, fitting length and formatting guidelines as directed on the submission webpage. All submitted papers will be peer-reviewed. The review process is double-blind and hence, all submissions must be anonymized. Selected papers of particular merit will be proposed for publication in the ACM Transactions on Sensor Networks. For submission details, see the conference web site.

Demos: Demonstrations showing innovative research and applications are solicited. SenSys is very interested in demonstrations of technology, platforms, and applications of sensor systems. Abstracts of accepted demos will be published in the SenSys conference proceedings. Submissions from both industry and academia are encouraged. For submission details, see the conference web site. A call for demos with submission dates, etc., will be posted at a later point.

Posters: Posters showing exciting early work on sensor systems are solicited. Areas of interest are the same as those listed in the technical call for papers. While the poster need not describe completed work, it should report on research for which at least preliminary results are available. For submission details, see the conference web site. A call for posters with submission dates, etc., will be posted at a later point.

Workshops: Workshop proposals are highly encouraged in emerging areas related to sensor networks. A call for workshop proposals will be posted on the SenSys website.

Organization:

General Chair: Tarek Abdelzaher (University of Illinois, Urbana-Champaign)

Program Co-Chairs: Margaret Martonosi (Princeton) and Adam Wolisz (TU Berlin)

Poster Co-Chairs: Philippe Bonnet (U. Copenhagen) and Tian He (U Minnesota)

Demo Co-Chairs: Kamin Whitehouse (U Virginia) and Yunhao Liu (Hong Kong University of Science and Technology)

Local Arrangements Chair: Injong Rhee (North Carolina State University)

Publicity Co-Chairs: Thiemo Voigt (Swedish Institute of Computer Science), Liqian Luo (Microsoft Research), and Yoshito Tobe (Tokyo Denki University)

Sponsorship Chair: Matt Welsh (Harvard)

Web Chair: Ying Zhang (PARC)

Registration Chair: Peter Corke (CSIRO ICT Centre)

Finance Chair: Jie Liu (Microsoft Research)

Workshop Chair: Andrew Campbell (Dartmouth)

Student Award Chair: Sam Madden (MIT)

Publication Chair: Joe Polastre (Sentilla)

Steering Committee Chair: Andrew Campbell (Dartmouth)