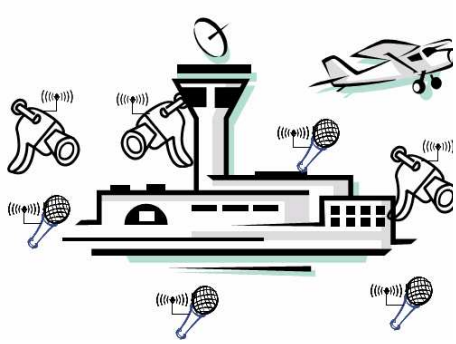
1st Workshop on Broadband Advanced Sensor Networks
(co-located with BroadNets '04)
San Jose, CA, October 25, 2004



BASENETS '04

SCOPE OF THE CONFERENCE

The emergence and adoption of broadband wireless access standards, such as 802.16, 802.16a and 802.11a/g, offers exciting new possibilities for high-bandwidth data communication over the "last mile." A significant use of such high bandwidth may lie in the use of a variety of multimodal sensors for monitoring and control of diverse geographic areas. Such sensors may be used for remote video/audio surveillance and active monitoring of telemetry data in city blocks, highways, airports, hotels, campuses and a variety of other indoor and outdoor environments.

This workshop is intended for the presentation and discussion of novel architectures, algorithms and applications of sensor networks based on the use of wireless broadband channels. Areas of interest include problems related to energy efficiency, dynamic control and reliability of such sensor network deployments, especially under the expected resource constraints on the sensor devices. Of particular interest are visions, practical case studies, demonstrations or pilots of innovative techniques for building sensor networks using either broadband local or metropolitan wireless networks.

Topics of interest include, but are not limited to:

- Multimedia Interfaces for Wireless Sensors
- Broadband vs. Narrowband Wireless Sensing
- Video and Audio Sensing Applications over Broadband Networks
- Distributed Multimedia Compression/Aggregation for Broadband Sensor Networks
- Scalability and Performance Bottlenecks for Wide-Area Broadband Sensing
- Adaptive Configuration of Broadband Sensor Networks
- Power and Spectrum Management Issues for Broadband Sensing
- Architectures for Broadband Sensor Networks
- Applications of Wireless Broadband Sensor Networks
- Security and Privacy for Broadband Sensor Networks
- Broadband Sensor Networks with Mobile Nodes
- Heterogeneous Wired-Wireless Broadband Sensor Networks

SUBMISSION

Papers should be written in English, should not exceed 20 double-spaced, single-column pages, including figures and references, and should include an abstract, not to exceed 250 words. Papers should be submitted in PDF format via the EDAS system (http://edas.info)**.** All papers will be peer reviewed.

The best papers of this workshop will be considered for possible publication in the *ACM Transactions on Sensor Networks* (http://www.acm.org/tosn/).

IEEE

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IMPORTANT DATES

Full paper due: June 28, 2004, Notification of acceptance: July 25, 2004, Camera-ready copy: Aug. 9, 2004

Workshop Chairs: W. Heinzelman (U. of Rochester), B. Krishnamachari (U. of Southern California)
Program Committee: N. Abu-Ghazaleh (Binghamton U.), J. Apostolopoulos (HP Labs), A. Bestavros (Boston U.), A. Campbell (Columbia U.), M. El Zarki (U. of California at Irvine), W.-C. Feng (OGI), S. Gupta (Arizona State U.) R. Han (U. of Colorado at Boulder), A. Helmy (U. of Southern California), S. Jha (U. of New South Wales), H. Karl (TU Berlin), M. Liu (U. of Michigan), B. Nath (Rutgers U.), M. Papadopouli (U. of North Carolina), A. Safwat (Queens U.), I. Stojmenovic (U. of Ottawa), U. Tureli (Stevens U.), M. van der Schaar (U. of California at Davis), P. Varshney (Syracuse U.)
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For more details, please visit http://www.basenets.org or contact basenets04-chairs@ece.rochester.edu

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