



Call for Papers **BASENETS 2006**

*Third IEEE/CreateNet International Workshop on
Broadband Advanced Sensor Networks*

In Conjunction with BroadNets 2006

October 1st, 2006, San Jose, CA

<http://www.basenets.org>

The emergence, adoption, and ubiquity of broadband wired and wireless networking technologies offer exciting new possibilities for high-bandwidth sensing and actuation applications. Rich modality sensors, such as video, acoustic, and motion capturing devices, connected through broadband networks can deliver unparalleled experiences for scientific discoveries, surveillance, monitoring and control, and entertainment.

Building on the success of BaseNets 2004 in San Jose and 2005 in Boston, this workshop is intended for the presentation and discussion of novel architectures, algorithms, and applications of sensor networks based on the use of broadband channels. Areas of interest include problems related to resource efficiency, dynamic control, and reliability of broadband sensor network deployments, especially under the expected resource constraints in the network. 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:

- Architectures for Broadband Sensor Networks
- Video and Audio Sensor Networks
- Mobile and Heterogeneous Wired-Wireless Sensor Networks
- Adaptive Configuration of Broadband Sensor Networks
- Broadband vs. Narrowband Sensing
- Multimedia Interfaces for Wireless Sensors
- Distributed Multimedia Compression/Aggregation for Broadband Sensing
- Scalability and Performance Bottlenecks for Wide-Area Sensing
- Programming Models, Platforms, and Services
- Power and Spectrum Management Issues
- Security and Privacy Issues
- Applications and Case Studies

Important Dates

- Online Paper Registration: **May 26th, 2006**
- Final Paper Upload: **June 2nd, 2006**
- Acceptance Notification: **July 2nd, 2006**
- Final Manuscript Due: **August 1st, 2006**

Submission: Authors are invited to submit full papers of up to 8 pages in single-space, double-column, IEEE conference format. See <http://www.basenets.org> for submission instructions.

Organization Committee

Workshop Co-Chair: Andreas Savvides (Yale), Jie Liu (Microsoft Research)

Technical Program Committee: Azer Bestavros (BU), Nirupama Bulusu (Portland State), Maurice Chu (PARC), Deepak Ganesan (U. Mass. Amherst), Aman Kansal (UCLA), Xenofon Koutsoukos (Vanderbilt), Rainer Lienhart (U. Augsburg), Mohan Trivedi (UCSD)

Steering Committee: Wendi Heinzelman (Rochester); Bhaskar Krishnamachari (USC)