

# ImageSense 2008

## Workshop on Applications, Systems, and Algorithms for Image Sensing

November 4, 2008, Raleigh, North Carolina, USA

Held in conjunction with **ACM SenSys 2008**

The improving performance of small form factor and low power image sensing technologies is constantly expanding the sensing capabilities of embedded, wireless, and mobile platforms, thereby enabling new applications. Effective design and deployment of such applications involves addressing many research issues ranging from efficient platform design; in-situ event extraction; storage, processing and communication of large amounts of image data; and privacy issues inherent to image sensing.

This workshop hopes to provide a forum to discuss the latest research, future directions, challenges, and novel ideas for realizing the potential of image sensor networks. Researchers coming from the multiple related fields of imaging technology, image interpretation, embedded application design, wireless and low power networking, and image data management will have an opportunity to interact and synergize.

### Topics

Applications for distributed low power imaging  
Platforms for image and visual sensing for embedded applications  
Image analysis and interpretation for sensor networks  
In-situ and in-network image information extraction  
Multi-modal sensor fusion including imagers  
Algorithms for adaptive image capture, communication, and retrieval  
Joint optimization of image optics and processing for low power/low cost systems  
Mobile device based image sensing systems  
Mobility, actuation, and control for and using image sensing  
Privacy protection  
System architectures, heterogeneous imagers, and infrastructure design  
Power management  
Industry updates and case studies

**Submission:** Submitted papers must be no longer than 5 single-spaced 8.5" x 11" pages, two-column format, using 10-point type. Author names and affiliations should appear on the title page. Papers must be in PDF and submitted via the submission site shown on the workshop webpage. All submissions must describe original research, not published or currently under review for another workshop, conference, or journal. Early stage research ideas are encouraged. Accepted papers will be made available on the workshop website.

### Important Dates

Paper registration due: **August 25, 2008**  
Paper submission due: **August 29, 2008**  
Notification to authors: **September 29, 2008**  
Final files due: **October 14, 2008**

### Co-Chairs

Deepak Ganesan (U. Massachusetts)  
Phillip B. Gibbons (Intel Research)  
Aman Kansal (Microsoft Research)

### Technical Program Committee

Maurice Chu (PARC)  
Peter Corke (CSIRO ICT Centre)  
Branislav Kusy (Stanford)  
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