

# 5<sup>th</sup> International Workshop on Data Management for Sensor Networks (DMSN'08)

--- C A L L F O R P A P E R S ---

5th International Workshop on Data Management for Sensor Networks (DMSN'08)

In conjunction with VLDB 2008

Auckland, NEW ZEALAND

<http://dmsn08.cs.umass.edu/>

## WORKSHOP AIM

The workshop's scope includes all important aspects of sensor data management, including data acquisition, processing, and storage in remote wireless networks; the handling of uncertain sensor data; and the management of heterogeneous and sometimes sensitive sensor data in databases. The resource-constrained, lossy, noisy, distributed, and remote nature of wireless sensor networks implies that traditional database techniques often cannot be applied without significant retooling. Challenges associated with acquiring, processing, and archiving large-scale, heterogeneous sets of live sensor data also call for novel data management techniques. The inherently incomplete and noisy nature of sensor data further calls for techniques for data cleaning, inference, approximation. Finally, in many applications, the collecting of sensor data raises important privacy and security concerns that require new protection and anonymization techniques.

## TOPICS OF INTEREST

We solicit papers that address important aspects of sensor data management. Topics of interest include, but are not limited to, the following:

- database languages for sensor tasking
- distributed sensor data storage and indexing
- data replication and consistency in noisy and lossy sensor networks
- energy-efficient data acquisition and dissemination
- in-network query processing
- networking support for data processing
- model-based sensor data processing
- query optimization and deployment planning in sensor networks
- managing loss, noise, and ambiguity in sensor data streams and sensor databases
- integration of live and stored sensor data
- challenges and techniques for new types of sensor data: e.g., RFID, images and videos, data from scientific and medical instruments
- integration of sensor data of different modalities and from different sources
- personal, ubiquitous applications of sensor-based infrastructures
- techniques for secure sensor data collection and processing
- privacy protection techniques for sensor data
- collecting and publishing of large sensor data sets

Submitted papers must not have been published or currently be under consideration for publication at another venue.

## 5<sup>th</sup> International Workshop on Data Management for Sensor Networks (DMSN'08)

We are particularly interested in position papers, vision papers, system designs, and papers that address new challenges for sensor data management.

Questions about the workshop scope should be directed to the program committee chairs at [dmsn08@cs.umass.edu](mailto:dmsn08@cs.umass.edu).

### IMPORTANT DATES

Paper submission: Mon, Jun 09, 2008 (5:00 p.m. PST)  
Notification: Mon, Jul 07, 2008  
Camera-ready copy due: Mon, Jul 21, 2008  
Workshop: Sun, Aug 24, 2008

### SUBMISSION INSTRUCTIONS

All submissions will be handled electronically using the [Conference Management System](#) made available to us by Microsoft Research. Detailed submission instructions are posted on the DMSN'08 web site, <http://dmsn08.cs.umass.edu/>.

Full papers in PDF format must be submitted by June 2nd, 2008 (5:00 p.m. Pacific Standard Time). Papers should be in the [ACM Proceedings camera-ready format](#) and must be at most 6 pages long.

Questions about the submission process should be directed to the program co-chairs at [dmsn08@cs.umass.edu](mailto:dmsn08@cs.umass.edu).

### WORKSHOP FORMAT

Our goal is to bridge communities by bringing together interested researchers from different communities to identify future research challenges and opportunities. As such, the workshop will be organized in a way to foster interaction and exchange of ideas among the participants. We expect to have longer than usual question-and-answer periods after paper presentations, one keynote speech, and possibly a panel discussion.

### ORGANIZATION

#### General Chairs:

Magdalena Balazinska      University of Washington  
Jun Yang                      Duke University

#### Program Committee Chairs:

Yanlei Diao                      University of Massachusetts Amherst  
Christian S. Jensen              Aalborg University

## 5<sup>th</sup> International Workshop on Data Management for Sensor Networks (DMSN'08)

### Steering Committee:

Amol Deshpande	University of Maryland
Alexandros Labrinidis	University of Pittsburgh
Qiong Luo	Hong Kong U. of Science and Technology
Samuel Madden	Massachusetts Institute of Technology

### Program Committee:

K. Selçuk Candan	Arizona State University
Ugur Cetintemel	Brown University
Hong Chen	Renmin University
Amol Deshpande	University of Maryland, College Park
Deepak Ganesan	University of Massachusetts Amherst
Minos Garofalakis	Yahoo! Research
Zachary Ives	University of Pennsylvania
Alexandros Labrinidis	University of Pittsburgh
Jianzhong Li	Harbin Institute of Technology
Qiong Luo	Hong Kong University of Science and Technology
Samuel Madden	Massachusetts Institute of Technology
Pedro Jose Marron	University of Bonn
Kamesh Munagala	Duke University
Silvia Nittel	University of Maine
Xueyan Tang	Nanyang Technological University
Jianliang Xu	Hong Kong Baptist University
Jun Yang	Duke University
Demetris Zeinalipour-Yazti	University of Cyprus