

CALL FOR PAPERS

DMSN'04: Workshop on Data Management for Sensor Networks

August 29/30, 2004, Toronto, Canada (in conjunction with VLDB 2004)

<http://db.cs.pitt.edu/dmsn04>

Important Dates:

May 10: Abstracts
May 17: Papers
Jun 10: Notification
Jun 24: Camera-ready

Program Chairs:

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Questions:

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Workshop Aim

The workshop will focus on the challenges of data processing and management in networks of remote, wireless, battery-powered sensing devices (sensor networks). The power-constrained, lossy, noisy, distributed, and remote nature of such networks means that traditional data management techniques often cannot be applied without significant re-tooling. Furthermore, new challenges associated with acquisition and processing of live sensor data mean that completely new database techniques must also be developed.

Topics of Interest

We will solicit papers that address all aspects of data management in sensor networks. Particular emphasis will be given to the following topics, as they relate to sensor networks:

- data replication and consistency in noisy and lossy environments
- database languages for sensor tasking
- distributed data storage and indexing
- energy-efficient data acquisition and dissemination
- in-network query processing
- integration of sensor network data into traditional and streaming data management systems
- networking support for data processing
- techniques for managing loss, uncertainty, and noise
- query optimization
- privacy protection for sensory data

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

We are primarily interested in position papers, vision papers, system designs and papers that address new challenges for data management in sensor network environments. As such, we expect that the submitted papers will have a strong network component and go beyond traditional database systems. Questions about the conference scope should be directed to the program co-chairs at dmsn04@cs.pitt.edu.

Submission Instructions

All submissions will be handled electronically. More details are posted on the web site, <http://db.cs.pitt.edu/dmsn04>. The workshop proceedings will be printed and distributed at the workshop. Selected papers will be also published in post-proceedings.

For every paper submission, authors must first submit an abstract by May 10th, 2004 (5pm EST). Abstracts should be in plain text (200 words max).

Full papers in PDF format must be submitted by May 17th, 2004 (5pm EST). Papers should be in the VLDB camera ready format (double-column, at most 6 pages in 9pt font). The format of your submission must be for US "Letter" size paper (8.5 by 11 inches). See <http://db.cs.pitt.edu/dmsn04> for more details.