



## CALL FOR PAPERS

The MDM series of conferences, since its debut in December 1999, has established itself as a prestigious forum for the exchange of innovative and significant research results in *mobile data management*. The term mobile in MDM has been used from the very beginning in a broad sense to encompass all aspects of mobility - aspects related to wireless, portable and tiny devices. The conference provides unique opportunities for researchers, engineers, practitioners, developers, and users to explore new ideas, techniques, and tools, and to exchange experiences.

The 2011 International Conference on Mobile Data Management (MDM 2011), to be held in Luleå, Norrbotten, Sweden (June 6-9, 2011) solicits innovative research contributions related to data management in ubiquitous, pervasive and mobile cloud computing.

Topics of interest include, but are not limited to, the following:

- Adaptability and stability of pervasive computing systems
- Context-aware computing and location-based services
- Data management in sensor and mobile ad hoc networks
- Data management in mobile peer-to-peer networks
- Data Management in the Mobile Cloud
- Data mining for mobile applications
- Data replication, migration and dissemination in mobile environments
- Data stream processing in mobile/sensor networks
- OS and middleware for mobile and pervasive computing
- Indexing and query processing for moving objects
- Query processing and optimization for mobile users
- Resource advertising and discovery techniques
- Theoretical foundations of data-intensive mobile computing
- OS and middleware for mobile and pervasive computing
- Security and privacy issues for ubiquitous systems
- Data stream security for mobile sensor networks
- Web data processing and security on mobile devices
- Mobile Web 2.0
- Pervasive Data Management
- Transactions and workflows in mobile environments
- Location and Trajectory data management
- Publish/subscribe and Query processing middleware for mobile data
- Mobile Cloud Computing
- Mobile Semantic Data Management
- Human-centric Activity Recognition
- Augmented Reality systems, data issues
- Managing pervasive data, sensor data streams and user devices
- Data Management of Mobile/ephemeral Social Networks
- People-centric mobile sensing networks and smart urban spaces
- Management of community sensing/participatory sensing data
- Management of Real-time Data in Converged Networks
- Mobile social applications and services

## PAPER SUBMISSION

The conference invites original, unpublished work, not exceeding 10 pages, including figures, tables and references. Papers must be in IEEE camera-ready format

[www.ieee.org/web/publications/pubservices/confpub/AuthorTools/conferenceTemplates.html](http://www.ieee.org/web/publications/pubservices/confpub/AuthorTools/conferenceTemplates.html)

Submissions in PDF are to be uploaded to the conference submission site at

<https://cmt2.research.microsoft.com/MDM2011/Default.aspx>

## IMPORTANT DATES

- |                                   |                   |
|-----------------------------------|-------------------|
| • Abstract registration:          | November 15, 2010 |
| • Paper submission:               | November 22, 2010 |
| • Acceptance notification:        | February 14, 2011 |
| • Camera -ready paper submission: | March 21, 2011    |

Best papers from MDM 2011 will be invited to submit an extended version with significant additional content (min 30%) to a special issue on Mobile Data Management of The **Journal of Distributed and Parallel Databases (DAPD)**.

### General Chairs:

Arkady Zaslavsky (Luleå University of Technology, Sweden)  
Panos K. Chrysanthis (University of Pittsburgh, USA)  
Dik Lun Lee (HKUST, Hong Kong)

### Program Chairs:

Dipanjan Chakraborty (IBM Research – India)  
Vana Kalogeraki (Athens University of Economics and Business, Greece)  
Mohamed Mokbel (University of Minnesota, USA)

### Industry Chairs:

Johan Hjelm (Nippon Ericsson KK, Ericsson Research)  
Do van Thanh (University of Oslo & Telenor, Norway)

### Local Organising Chair:

Karl Andersson (Luleå University of Technology, Sweden)

### Publicity Chairs:

Olga Papaemmanouil (Brandeis University, USA)  
Baihua Zheng (Singapore Management University)

### Workshop Chairs:

Daniela Nicklas (University of Oldenburg, Germany)

### Panel Chairs:

Claudio Bettini (University of Milano, Italy)  
Mikael Wiberg (Umea University, Sweden)

### Demo Chairs:

Hui Lei (IBM T.J.Watson)  
Claudia Roncancio (University of Grenoble, France)

### Industry Exhibit Chair:

Michael Borjeson (CDT, LTU, Sweden)

### Advanced Seminars Chairs:

Jari Veijalainen (University of Jyväskylä)  
Karl Aberer (EPFL, Switzerland)

### Doctoral Colloquium Chairs:

Jukka Riekkii (University of Oulu, Finland)  
Goce Trajcevski (Northwestern University, USA)

### Proceedings Chair:

Chi-Yin Chow (City University of Hongkong)