

**13<sup>th</sup> IEEE International Conference on Mobile Data Management (MDM 2012)**  
**July 23-26, 2012, Bangalore, India**  
**([www.mdmconferences.org/mdm2012](http://www.mdmconferences.org/mdm2012))**

**CALL FOR PAPERS**

The IEEE International Conference on Mobile Data Management 2012 (MDM 2012) will be the thirteenth of a series of conferences that is dedicated to innovative and important research on mobile data management. Through these years since 1999, the MDM series of conferences has established itself as a leading international forum for researchers, practitioners and users whose work involves mobility related data.

The history of the MDM series of conferences so far has also witnessed the rapid and dramatic evolution of mobility-related hardware, software, as well as other relevant technologies. All developments in such aspects have rendered the fundamental issue of mobile data management even more challenging than ever. Increasing amounts of data of several sorts and complexities, e.g., spatial, spatiotemporal and multimedia data, are being generated by huge numbers of users of many kinds of mobile devices that range from sensors, smartphones to portable computers comparable to workstations a decade ago. Mobile users, through different wireless means, are connected to the conventional Internet, to each other, and to the emerging clouds. On the other hand, more and more domains and applications are still eager to go mobile in order to offer seamless user convenience and experience. Staging information between the mobile device and the supporting infrastructure and managing it efficiently to support the QoS needs for mobile multimedia applications is also becoming an increasing challenge. All these challenges call for novel ideas, techniques and tools that can help various users cope with their data in this new era of mobility.

The 2012 International Conference on Mobile Data Management (MDM 2012), to be held in Bangalore, India (July 23-26, 2012) solicits original research contributions related to all aspects of mobile data management. Based on quality criteria, accepted submissions will be selected as full papers, short papers, and poster papers.

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

- Adaptability and stability of pervasive computing systems and services
- 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 middlewares and services
- Transactions and workflows in mobile environments
- Location and trajectory data management, mining, learning
- Publish/subscribe and query processing middleware for mobile data
- Mobile cloud computing
- Mobile semantic data management
- Mobile multimedia information management
- Human-centric activity recognition and exploitation
- Augmented reality systems, data issues
- Managing pervasive data, sensor data streams and user devices
- Data management of mobile/ephemeral social network services

- People-centric mobile sensing networks and smart urban spaces
- Mining/Management of community sensing/participatory sensing data
- Data management middlewares and services in converged networks
- Mobile social applications and services
- Green and sustainable energy-aware mobile data management
- Cyber-physical mobility and data management
- Data management in intelligent transportation systems

## WORKSHOP, DEMO, PANEL, SEMINAR, Ph.D. FORUM AND INDUSTRIAL TRACK

A number of events (workshop, demos, panels, seminars, PhD forum, and special industrial track) will be organized to cater for all academic activities.

- Workshops are for fast track publications of papers.
- Demos will present state of the art prototypes.
- Panels will review current research activities and explore new frontiers.
- Ph.D. forum is to encourage student participation.
- Industrial track is for companies to present their research and development works.

## IMPORTANT DATES

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| • Abstract registration: <b>December 12, 2011 (extended)</b> | • Acceptance notification: February 20, 2012 |
| • Paper submission: <b>December 12, 2011 (extended)</b>      | • Camera-ready paper due: April 5, 2012      |

## 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/MDM2012/Default.aspx>

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