



mobile data management 2012

July 23-26, 2012, Bengaluru, India

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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. The history of the MDM series of conferences since 1999 has witnessed the rapid and dramatic evolution of mobility-related hardware, software, as well as other relevant technologies. Increasing amounts of data of several sorts and complexities, e.g., spatial, spatiotemporal and multimedia data, are being generated by huge numbers of users on various mobile devices. Challenges from all relevant aspects call for novel ideas, techniques and tools that can help various users cope with their data in this new era of mobility.

MDM 2012 will be held in Bengaluru (i.e. Bangalore), India, July 23-26, 2012. The conference invites 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 posters.

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

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

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

<https://cmt2.research.microsoft.com/MDM2012/Default.aspx>

IMPORTANT DATES

- **Abstract registration:** December 12, 2011 (extended)
- **Paper submission:** December 20, 2011 (extended)
- Acceptance notification: February 20, 2012
- Camera -ready paper submission: April 5, 2012