

IMMoA 2012
International Workshop on
Information Management in Mobile Applications
in conjunction with VLDB 2012

Web: <http://www.dbis.rwth-aachen.de/IMMoA2012>
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– Call for Papers –

Mobile devices pose tremendous challenges to the design and implementation of information systems suited for mobile environments. While users expect similar functionality on their smartphone as provided on their laptop or desktop computer, the hardware and communication platforms are still limited. Especially, data-intensive mobile applications require new ways of data management, processing, and analysis. Crucial issues include energy-efficiency, limited CPU power and storage, real-time processing, small displays, and communication costs.

The rapid development in mobile hardware and software has enabled new applications which pose new challenges for mobile data management. Improvements in the area of mobile communication and increased bandwidth provides new possibilities for exchanging and sharing data. Mobile data can have various forms, such as sensor data, user profiles & user context, spatial data, and multimedia data. Smartphones, mobile and wearable sensors, and other portable systems are used in various applications to collect, process, and exchange an increasing amount of data. Applications can run on several devices (mobile, PCs, multimedia), but the exchange, the integration, and the querying of data between these devices remains a challenging problem. This workshop aims at providing a discussion forum for recent research in this area.

The first edition of the workshop HIMoA 2011 (International Workshop on Managing Health Information in Mobile Applications, <http://dbis.rwth-aachen.de/HIMoA2011>) focused on data management for mobile applications in health related settings. The International Workshop on Information Management for Mobile Applications (IMMoA'12) can be seen as a continuation of the successful HIMoA workshop and aims at a broader range of mobile applications and systems. IMMoA'12 targets to provide a forum for discussion about technologies and mechanisms, which support the management of mobile, complex, integrated, distributed, and heterogeneous data-focused applications. The workshop is held in conjunction with VLDB 2012 as the workshop addresses important subareas in data management.

The list of topics includes, but is not limited to:

- Data management and integration in mobile peer-to-peer networks
- Data stream management in mobile applications/environments
- Data stream mining for mobile applications
- Mobile Cloud Computing
- Data integration in mobile settings
- Context-aware mobile computing
- Applications using mobile data management techniques
- Query processing and optimization for mobile systems
- Real-time data processing in mobile applications
- Security and privacy for mobile data management
- Pervasive data management
- Transaction processing in mobile applications
- Expert systems for mobile information systems
- Sensing and acquisition of data in mobile environments

- Data sharing and interoperability in mobile applications
- Managing data intensive mobile applications
- Management and processing of geospatial data
- Mobile health data management and analysis
- Pervasive health systems and services
- Location-based services
- Mobile data management systems and middleware
- Knowledge representation and reasoning in mobile applications

Important Dates

- Deadline for Workshop Papers: May 15, 2012
- Notification of Workshop Papers: July 15, 2012
- Deadline for Camera Ready Papers: August 1, 2012
- Workshop Date: August 31, 2012

Submission Guidelines

The page limits for accepted regular workshop papers are 8 pages, including all figures, tables, and references, and 4 pages max for short papers. Papers must be in VLDB format. Templates can be found at <http://vldb2012.org/call-for-contributions/preparation-and-formatting-guidelines/>.

Submissions in PDF are to be uploaded to the workshop's submission site
<http://www.dbis.rwth-aachen.de/IMMoA2012/submission.shtml>

All submissions must be unique and not have been published already in another context.

Workshop Organizers

- Thierry Delot, University of Valenciennes & Inria Lille, France
- Sandra Geisler, Information Systems, RWTH Aachen University, Germany
- Christoph Quix, Information Systems, RWTH Aachen University, Germany
- Bo Xu, University of Illinois at Chicago, USA

Website

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