

CALL FOR PAPERS

The 6th International Conference on Mobile Data Management (MDM'05) Ayia Napa, Cyprus, May 9-13, 2005

<http://www2.cs.ucy.ac.cy/mdm05>

In cooperation with ACM SIGMOD/SIGMOBILE and IEEE TCDE/TCI (pending)

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Mema Roussopoulos, Harvard U., USA
Heiko Schuldt, UMIT, Austria

Scope:

The strong growth in wireless communications and the ever increasing availability of mobile multi-purpose devices have created a global computing environment that plays a key role in the daily activities of millions of people. Users communicate, work, and confer using a wide range of devices all connected via an array of communication networks that provide voice and data access regardless of geographic position. This infrastructure aggregation presents a number of challenges especially when it comes to data-intensive applications: scale, variable and intermittent connectivity, provision of location-dependent applications, bandwidth/power consumption, device size limitations, and multimedia delivery across hybrid networks. Conventional issues in data management have to be thought and evaluated anew in this rapidly changing environment. Non-traditional issues including semantics of data, location-centric data services, broadcast and multicast delivery, data availability techniques, security of data, as well as privacy questions have to be addressed. MDM'05 focuses on challenges and opportunities for data management and access technology in the evolving world of mobile, wearable, and pervasive computing.

Topics of Interest:

- Theoretical foundations of data-intensive mobile computing
- Location and mobility semantics
- Data placement, caching, replication and relocation to support mobility
- Data dissemination in mobile environments
- Data presentation, scripting and exchange languages
- Data management for ubiquitous computing
- Resource advertising and discovery techniques to support mobility
- Metadata management and exchanges
- Query processing and optimization for mobile users
- Transactions and workflows in mobile computing
- Middleware support for mobility
- Multimedia delivery in 3G mobile networks
- Web access and Internet applications using mobile devices
- Context-aware computing and location-based services
- Adaptation of user interface and content
- Mobile agent platforms and ubiquitous computing applications and systems
- Operating system and network support for mobile devices
- Security and privacy issues for ubiquitous systems
- Location tracking of vehicles and goods
- Interaction of mobile applications and sensor networks
- Quality of service issues for data-intensive services
- Adaptability and stability of pervasive computing systems
- Data mining for mobile application

Solicitation:

Unpublished research papers are sought; their length should not exceed 8 pages in the camera-ready IEEE style. Authors are invited to submit their manuscripts using the site at <http://www2.cs.ucy.ac.cy/mdm05> on or before October 28th, 2004. The PDF format is preferred but PostScript format is acceptable. Important dates are:

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|----------------------------|---------------------|
| Abstract Registration | October 21st, 2004 |
| Paper Submission | October 28th, 2004 |
| Notification of Acceptance | December 29th, 2004 |
| Camera-Ready Due | January 24th, 2005 |

Industrial/experience papers as well as proposals for panels, demos, tutorials, and workshops are also sought by October 28th, 2004. Industrial/experience papers are expected to discuss novel aspects of deployed applications and/or prototypes as well as experiences and standards.

Timos Sellis, NTUA, Greece
Oded Shmueli, Technion, Israel
Makoto Takizawa, Tokyo Denki U., Japan
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