

# **MDM 2012 - The 13th International Conference on Mobile Data Management**

Bangalore, India

Jul 23, 2012 - Jul 26, 2012

<http://www.mdmconferences.org/mdm2012/>

**Conference Program**

# MDM Program 2012

## Monday, July 23

<b>8:00-9:00AM</b>	<b>Workshop and Conference Registration</b>	
<b>LOCATION</b>	<b>SIGMA 1 &amp; 2</b>	<b>SIGMA 3</b>
<b>9.00-10.30AM</b>	<b>Workshop on Mobile Data Collection in the Developing World (DataDev)</b>	<b>Workshop on Data Management in Participatory Sensing (DMPS)</b>
<b>10.30-11.00AM</b>	<b>Tea Break</b>	
<b>11.00AM-12.30PM</b>	<b>DataDev Workshop (cont.)</b>	<b>DMPS Workshop (cont.)</b>
<b>12.30-1.30PM</b>	<b>Lunch Break</b>	
<b>1.30-2.00PM</b>	<b>DataDev Workshop (cont.)</b>	<b>DMPS Workshop (cont.)</b>
<b>2.00-3.30PM</b>		<b>Poster and Demo Rapid Fire Session</b> Chair: Geetha Manjunath
<b>3.30 – 4.00PM</b>	<b>Tea Break</b>	
<b>4.00-5.30PM</b>	<b>DataDev Workshop (cont.)</b>	

# MDM Program 2012

## Tuesday July 24

8.00-9.00AM	Conference Registration	
9.00-9.30AM	Opening Ceremony Guest of Honor: Dr. Ravi Kothari, IBM Distinguished Engineer; Assoc. Director, IBM Research India; Chief Architect - IBM Bharti <b>SIGMA 1 &amp; 2 &amp; 3</b>	
9:30 – 10.30AM	Keynote Talk: Prof. Ouri E. Wolfson, University of Illinois at Chicago, USA Title: Data Management in Intelligent Transportation Systems <b>SIGMA 1 &amp; 2 &amp; 3</b> Chair: Karl Aberer (EPFL)	
10.30-11.00AM	Tea Break	
<b>LOCATION</b>	<b>SIGMA 1 &amp; 2</b>	<b>SIGMA 3</b>
11.00AM-12.30PM	<u>Research Session 1:</u> <u>New Paradigms and Applications for Mobile Data</u> Chair: Arkady Zaslavsky	DataDev Workshop (cont.)
12.30-1.30PM	Lunch	
1.30-3.30PM	<u>Research Session 2:</u> <u>Mobile and Ubiquitous Middleware</u> Chair: C. V. Ravishankar	DataDev Workshop (cont.)
3.30 – 4.00PM	Tea Break	
4.00-5.30PM	<u>Research Session 3:</u> <u>Query Processing</u> Chair: Wei Wu	DataDev Workshop (cont.)
7:00 PM	<b>Conference Welcome Reception</b> <b>POOL SIDE</b>	

## Wednesday July 25

8.00-9.30AM	<b>Conference Registration</b>	
9:30 – 10.30AM	<b>Keynote Talk: Ponani S. Gopalakrishnan, Vice President, India Software Lab, IBM</b> Title: Real-world challenges in mobile data <b>SIGMA 1 &amp; 2 &amp; 3</b> Chair: Sougata Mukherjea (IBM Research)	
10.30-11.00AM	<b>Tea Break</b>	
<b>LOCATION</b>	<b>SIGMA 1 &amp; 2</b>	<b>SIGMA 3</b>
11.00AM-12:30PM	<u><b>Research Session 4:</b></u> <u><b>Mobile Sensing and Data Management</b></u> Chair: João Gama	<b>Advanced Seminar 1 (Part 1):</b> <u><b>Mobile Data Stream Mining: From Algorithms to Applications</b></u> Dr. Shonali Krishnaswamy, Prof. Joao Gama, Dr Mohamed Medhat Gaber Chair: Goce Trajcevski
12.30-1.30PM	<b>Lunch</b>	
1.30-3.00PM	<u><b>Research Session 5:</b></u> <u><b>Mobile Data Mining</b></u> Chair: Claudio Bettini	<b>Advanced Seminar 1 (Part 2):</b> <u><b>Mobile Data Stream Mining: From Algorithms to Applications</b></u> Dr. Shonali Krishnaswamy, Prof. Joao Gama, Dr Mohamed Medhat Gaber Chair: Goce Trajcevski
3:00 - 3.30PM	<b>Tea Break</b>	
3.30-5:00PM	<b>Panel :The price of data collected from your mobile? Ethics of mobile data collection.</b> Panelists: Arkady Zaslavsky, Karl Aberer, Sanjay Madria, and Claudio Bettini Panel moderators: Takahiro Hara and Srikanth Naidu	
5:00 – 6:30PM	<b>Conference Poster and Demo Session</b> <b>SIGMA BREAKAWAY AREA AND SIGMA 3</b> Chair: Geetha Manjunath	
7PM onwards	<b>Conference Banquet (Announcement of Best Paper Awards, MDM 2013 Plans)</b> <b>SIGMA 1 &amp; 2 &amp; 3 &amp; SIGMA BREAKAWAY AREA</b>	

## Thursday July 26

8.00-9:00AM	Conference Registration	
<b>LOCATION</b>	<b>SIGMA 1 &amp; 2</b>	<b>SIGMA 3</b>
9:00-10.30AM	<u>Research Session 6:</u> <u>Security and Privacy</u> Chair: Thanasis Papaioannou	<u>Advanced Seminar 2</u> <u>Crowdsourcing: Dynamic Data Management in</u> <u>Mobile P2P Networks</u> Dr. Sanjay Kumar Madria and Dr. Anirban Mondal Chair: Dipanjan Chakraborty
10.30-11AM	Tea Break	
11.00-12.30PM	<u>Research Session 7:</u> <u>Location and Trajectory</u> Chair: Ralf Hartmut Güting	<u>Industry Session</u> Chair: Koustuv Dasgupta
12.30-1.30PM	Lunch	
1:30-3.00PM	<u>Research Session 8:</u> <u>Sensor Networks</u> <b>SIGMA 1, 2 &amp; 3</b> Chair: Qiong Luo	<u>Ph.D. Colloquium Session</u> Chair: Anirban Mondal
3.00-3.30PM	Tea Break	
3.30PM-4.30PM	<b>Closing Keynote: Prof. Krithi Ramamritham, Indian Institute of Technology (IIT), Bombay)</b> <b>SIGMA 1, 2 &amp; 3</b> Chair: Anupam Joshi (University of Maryland Baltimore County)	
4.30PM	<b>Conference Closing Session</b> <b>SIGMA 1, 2 &amp; 3</b>	

## **Workshop Program**

### ***1<sup>st</sup> International Workshop on Data Management in Participatory Sensing (DMPS)***

*9:00 Opening (2 mins)*

#### **9:00 - 10:30. Session 1: Hot topics in participatory sensing**

*9:00 - 9:30. Opportunistic Collection of Sensor Data, Arkady Zaslavsky, CSIRO*

*09:30 - 10:00. Public Safety & Crowd Sourcing: Efforts, Issues and Next Directions, Sameep Mehta, IBM Research India*

*10:00 - 10:30. Big Data Mining in Social Media - An Australian Experience, Dimitrios Georgakopoulos, CSIRO*

#### **10:30 - 11:00 Tea Break**

#### **11:00 - 12:30. Session 2: Seminar Talks**

*11:00 - 11:45. Privacy-aware Sensing, Raghu Ganti, IBM T. J. Watson Research Center*

*11:45 - 12:30. Model-based Sensor Data Management, Thanasis Papaioannou, EPFL*

#### **12:30 - 13:30 Lunch Break**

#### **13:30 - 14:00. Session 3. Panel Discussion with the theme "Architecture of Participatory Sensing Data Management"**

*Many stakeholders involved in participatory sensing. What is the proper architecture/interactions in participatory sensing data management ? E.g., how does privacy module interact with the other pieces? How do you solve this puzzle of interdependencies in participatory sensing?*

## **Workshop Program**

### ***1st International Workshop on Mobile Data Collection in the Developing World (DataDev)***

#### **DAY 1 [Pre – Lunch]**

**9:00 - 9:30 Welcome and introductions**

**9:30 - 10:30 Practitioner Panel: Education and Health**

- Gautam John, Akshara Foundation
- Naresh Bala, SVYM
- Kanav Kahol, Public Health Foundation of India
- Regina Estuar and Anna Christine M. Amarra, Ateneo de Manila University
- Mayank Kedia, ICTPH

**10:30-11:00 Break**

**11:00-12:30 Practitioner Panel: Finance and Citizen Engagement**

- Anup Roy and KB Prathap, Centre for Micro Finance / JPAL South Asia
- Anupam Varghese, Eko
- Adhiraj Parthasarathy, Karvy Data Management
- Roshan Nair, Gram Vaani
- Srikanth Viswanathan, Janaagraha
- Shivani Siroya, InVenture

**12:30-1:30 Lunch**

## **Workshop Program**

### ***1<sup>st</sup> International Workshop on Mobile Data Collection in the Developing World (DataDev)***

#### **DAY 1: [Post – Lunch]**

**1:30-2:00 Lightning talks by demo/poster presenters (1 minute each)**

#### **2:00-3:30 Demo/poster session**

- Amarjeet Singh, IIIT Delhi
- Aditya Vashistha, IVR Junction (Microsoft Research India)
- Anoop Balakunthalam, FieldSurveyHQ (Neev Information Technologies)
- Jerome White, IBM Research India
- Daniel Sinnig, Concordia University
- Kulsoom Ally, Nokia
- Matt Theis, DiMAGI
- Meena Natarajan, Local Ground (UC Berkeley)
- Michael Syson, Usbong (Ateneo de Manila University)
- Mitesh Thakkar, Fieldata
- Neil Patel, Awaaz.De
- Nicola Dell, mScan (University of Washington)
- Peter Lubell-Doughtie, formhub (Columbia University)
- Rajesh Shah, Madan Kumar, & Vamsee Kanakala, Peer Water Exchange
- Sameer Segal, Artoo
- Shashank Garg, Handsrel
- Srihari Srinivasan, Thoughtworks
- Suniti Gupta, Lateral Praxis
- Waylon Brunette, Open Data Kit (University of Washington)
- Zahir Koradia, IIT Delhi

**3:30-4:00 Break**

**4:00-5:30 Breakout and working sessions**



## **Workshop Program**

### ***1<sup>st</sup> International Workshop on Mobile Data Collection in the Developing World (DataDev)***

#### **DAY 2**

##### **11:00-11:30 Reports from breakout sessions**

##### **11:30-12:30 Panel: Systems for Mobile Data Collection**

- Waylon Brunette (University of Washington / Open Data Kit)
- Matt Theis (DiMAGI)
- Peter Lubell-Doughtie (Columbia University / formhub)
- Michael Syson (Ateneo de Manila University)

##### **12:30 - 1:30 Lunch**

##### **1:30-3:30 Panel: Voice Services**

- Daniel Sinnig, Concordia University
- Neil Patel (Awaaz.De)
- Jerome White (IBM Research)
- Zahir Koradia (IIT Delhi)

##### **2:30-3:30 Panel: Potpourri**

- Meena Natarajan, Tapan Parikh (Local Ground / UC Berkeley)
- Nicola Dell (University of Washington)
- Amarjeet Singh (IIIT Delhi)
- Melissa Densmore (UC Berkeley)

##### **3:30-4:00 Break**

##### **4:00-5:00 Panel: Industry Tools**

- Sameer Segal (Artoo)
- Shashank Garg (Handsrel)
- Suniti Gupta (Lateral Praxis)
- Kulsoom Ally (Nokia)

##### **5:00-5:30 Discussion and next steps**

## **Ph.D. Colloquium Session**

Chair: Anirban Mondal (IIIT Delhi)

### **Defending Location Privacy using Zero Knowledge Proof in Location based Services**

Priti Jagwani, Saroj Kaushik ( IIT Delhi, India)

### **Framework for Collaborative Download in Wireless Mobile Environment**

Sourav Dandapat, Ravi Niranjana, Niloy Ganguly (IIT Kharagpur, India)

### **Extracting Region of Interest (ROI) Details using LBS Infrastructure and Web-databases**

Shivendra Tiwari, Saroj Kaushik (IIT Delhi, India)

### **Application of Cognitive Work Analysis Approach to complex sociotechnical system: Cardiac Patients Decision Support System,**

Anandhi Vivekanandan (University of Birmingham, UK)

To be followed by **Panel Discussion** on “**Hot MDM Topics and Career Advice for PhD students**”.

- A group of experts will briefly present their research work and perspectives, as well as some career advice for existing as well as prospective PhD students.
- Then the session will become interactive and the students can ask questions to obtain valuable insights from the panelists.

## **Research 1: New Paradigms and Applications for Mobile Data**

Chair: Arkady Zaslavsky (CSIRO)

### **Efficient Similarity Joins on Massive High-Dimensional Datasets Using MapReduce**

Wuman Luo (HKUST), Haoyu Tan (HKUST) , Huajian Mao (NUDT), Lionel Ni (HKUST)

### **Elastic Load-Balancing in a Distributed Spatial Cache Overlay**

Carlos Lübbe (Universität Stuttgart), Bernhard Mitschang (Universität Stuttgart), Anja Reuter (Universität Stuttgart)

### **Key Formulation Schemes for Spatial Index in Cloud Data Managements**

Ya-Ting Hsu (National Chiao Tung University, Taiwan) , Ling-Yin Wei (National Chiao Tung University, Taiwan) , Yi-Chin Pan (National Chiao Tung University, Taiwan), Wen-Chih Peng (National Chiao Tung University, Taiwan) , Wang-Chien Lee (Pennsylvania State University, USA) (**short paper**)

### **Parking in Competitive Settings: A Gravitational Approach**

Daniel Ayala (Univ. of Illinois at Chicago), Ouri Wolfson (University of Illinois, Chicago) ,Bo Xu (Univ. of Illinois at Chicago), Bhaskar Dasgupta (Univ. of Illinois at Chicago) , Jane Lin (Univ. of Illinois at Chicago) (**short paper**)

## **Research 2: Mobile and Ubiquitous Middleware**

Chair: C. V. Ravishankar (University of California, Riverside)

### **MELOC: Memory and Location Optimized Caching Model for Small Mobile Ad hoc Networks**

Lekshmi M. Chidambaram (Department of Computer Science, Missouri University of Science and Technology, Rolla, MO ), Sanjay K. Madria (Department of Computer Science, Missouri University of Science and Technology, Rolla, MO ), Mark Linderman (Air Force Research Lab, Rome, NY), Takahiro Hara (Osaka University, Japan).

### **DATEM: Towards QoS Aware Event Notification Framework for Delay Tolerant Networks**

Phani Rohit Mullangi (University of Georgia, Athens) , Lakshmish Ramaswamy (University of Georgia, Athens)

### **Implementing & Optimizing an Encryption Filesystem on Android**

Zhaohui Wang (George Mason University), Rahul Murmura (George Mason University), Angelos Stavrou (George Mason University)

### **Exploiting Rich Telecom Data for Increased Monetization of Telecom Application Stores**

Vikas Agarwal (IBM Research - India) ,Sumit Mittal (IBM Research - India) , Sougata Mukherjea (IBM Research - India) , Palak Dalal (IIT Bombay) (**short paper**)

### **Research 3: Query Processing**

Chair: Wei Wu (I2R, A\*SATR)

#### **Cooperative Scalable Moving Continuous Query Processing**

Xiaohui Li (National University of Singapore) , Panagiotis Karras (Rutgers University) , Lei Shi (National University of Singapore) , Kian-Lee Tan (National University of Singapore, Singapore) , Christian Jensen (Aarhus University, Denmark)

#### **Continuous All k-Nearest Neighbor Querying in Smartphone Networks Authors and Affiliations**

Demetris Zeinalipour (University of Cyprus), Georgios Chatzimilioudis (University of Cyprus), Wang-Chien Lee (Pennsylvania State University, USA), Marios Dikaiakos (University of Cyprus).

#### **A Spatial Caching Framework for Map Operations in Geographical Information Systems**

Marcos Vieira (UCR), Petko Bakalov (ESRI), Erik Hoel (ESRI) , Vassilis Tsotras (UCR)

#### **On Packing Very Large R-trees**

Wuman Luo (HKUST), Haoyu Tan (HKUST), Lionel Ni (HKUST), Huajian Mao (NUDT) (**short paper**)

### **Research 4: Mobile Sensing and Data Management**

Chair: João Gama (INESCPorto)

#### **OptiMoS: Optimal Sensing for Mobile Sensors**

Zhixian Yan (EPFL), Julien Eberle (Nokia), Karl Aberer (EPFL).

#### **Using On-the-move Mining for Mobile Crowd-sensing Authors and Affiliations:**

Wanita Sherchan (Monash University), Prem Jayaraman (Monash University) , Shonali Krishnaswamy (Inst. for Infocomm Research) , Arkady Zaslavsky (CSIRO) , Abhijat Sinha (Monash University) , Seng Loke (La Trobe University) .

#### **A Predictive Protocol for Mobile Context Updates with Hard Energy Constraints**

Stefan Föll (University Stuttgart), Florian Berg (University Stuttgart), Klaus Herrmann (University of Stuttgart), Kurt Rothermel (University of Stuttgart) (**short paper**).

#### **Comet: Decentralized Complex Event Detection in Mobile Delay Tolerant Networks**

Jianxia Chen, Lakshmi Ramaswamy (University of Georgia, Athens) , David Lowenthal (University of Arizona) , Shivkumar Kalyanaraman (IBM Research India) (**short paper**).

## **Research 5: Mobile Data Mining**

Chair: Claudio Bettini (University of Milano)

### **BP-Growth: Searching Strategies for Efficient Behavior Pattern Mining**

Xueying Li (USTC, China) , Huanhuan Cao (nokia) , Enhong Chen (USTC, China) , Hui Xiong (Rutgers) ,Jilei Tian (nokia)

### **Online Identification of Dwell Regions for Moving Objects Authors and Affiliations**

Muhammad Reaz Uddin, China V. Ravishankar, Vassilis J. Tsotras, (University of California, Riverside, CA, USA).

### **MWGen: A Mini World Generator**

Jianqiu Xu (Fernuni in Hagen) , Ralf Hartmut Güting (University of Hagen, Germany)

### **ComeTogether: discovering communities of places in mobility data**

Igo Brilhante (UFC, Brazil) , Michele Berlingerio (IBM) , Roberto Trasarti (ISTI-CNR) , Jose Antonio de Macedo (UFC, Brazil), Chiara Renso (ISTI-CNR) , Marco Antonio Casanova (PUC, Brazil) (**short paper**).

## **Research 6: Security and Privacy**

Chair: Thanasis Papaioannou (EPFL)

### **Privacy-Preserving Data Management in Mobile Environments: A Partial Encryption Approach**

R.K.N. Sai Krishna, T.J.V.R.K.M.K. Sayi, R. Mukkamala, P.K. Baruah, Sri Sathya Sai (Institute of Higher Learning, Prasanthi Nilayam, Old Dominion University, Norfolk, VA, USA).

### **Encrypted Searchable Storage of RFID Tracking Data**

Florian Kerschbaum (SAP Research), Leonardo Weiss F. Chaves (SAP AG).

### **Privacy-preserving sharing of sensitive semantic locations under road-network constraints**

Emre Yigitoglu (TOBB ETU), Maria Damiani (TOBB ETU), Osman Abul ( TOBB ETU ) , Claudio Silvestri (TOBB ETU).

### **Secure Hierarchical Data Aggregation in Wireless Sensor Networks: Performance Evaluation and Analysis**

Sanjay Madria (University of Missouri-Rolla, USA) (**short paper**)

## **Research 7: Location and Trajectory**

Chair: Ralf Hartmut Güting (University of Hagen)

### **Tracking the Dynamic Distribution of People in Indoor Space with Noisy Partitioning Sensors**

Song Wang (The University of Vermont), Xiaoyang Sean Wang (UVM), Yan Huang (the University of North Texas)

### **Low Energy and Sufficiently Accurate Localization for Non-Smartphones Authors and Affiliations**

Kuldeep Yadav (IIIT-Delhi) , Vinayak Naik (IIIT-Delhi) , Amarjeet Singh (IIIT-Delhi) , Pushpendra Singh (IIIT-Delhi)

### **Calibrating Large Scale Vehicle Trajectory Data**

Siyuan Liu (CMU), Ce Liu (University of Pittsburgh), Qiong Luo (HKUST), Lionel Ni (HKUST), Ramayya Krishnan (CMU)

### **Motion Trends Detection in Wireless Sensor Networks**

Goce Trajcevski (Dept. of EECS Northwestern University) , Besim Avci (Dept. of EECS, Northwestern University) , Fan Zhou (Dept. of EECS, Northwestern University) , Peter Scheuermann (Northwestern University, USA) (**short paper**)

## **Research 8: Sensor Networks**

Chair: Qiong Luo (HKUST)

### **Optimizing Multiple Data Acquisition Queries in Sparse Mobile Sensor Networks**

Shili Xiang (I2R, A\*STAR, Singapore), Wei Wu (I2R, A\*STAR, Singapore), Kian-Lee Tan (National University of Singapore, Singapore) .

### **An Efficient, Robust and Scalable Trust Management Scheme for Unattended Wireless Sensor Networks**

Yi Ren (University of Agder) , Vladimir Zadorozhny (University of Pittsburgh, USA), Vladimir Oleshchuk (University of Agder) , Frank Li (University of Agder).

### **Trust Management of Encrypted Data Aggregation in a Sensor Network Environment**

Sanjay Madria (University of Missouri-Rolla, USA)

## **Poster and Demo Session -- Posters**

Chair: Geetha Manjunath (HP Labs)

### **Maximizing Vehicular Network Connectivity Through an Effective Placement of Road Side Units Using Voronoi Diagrams**

Prithviraj Patil (Vanderbilt University), Aniruddha Gokhale (Vanderbilt University)

### **Social and Sensor Data Fusion in the Cloud**

Surender Yerva (EPFL), Hoyoung Jeung (EPFL), Karl Aberer (EPFL), Jonnahtan Saltarin (EPFL)

### **PhonePark: Street parking using mobile phones**

Leon Stenneth (UIC), Ouri Wolfson (University of Illinois, Chicago), Philip Yu (University of Illinois, Chicago), Bo Xu (Univ. of Illinois at Chicago)

### **Disseminating Information on Moving Vehicles with Hazardous Driving Behavior in Urban Areas**

Vasilis Verroios (University of Athens, Greece), Carmen Vicente (University of Athens, Greece)  
Alex Delis (University of Athens, Greece)

## **Poster and Demo Session -- Demos**

Chair: Geetha Manjunath (HP Labs)

- **The Airplace Indoor Positioning Platform for Android Smartphones**  
Christos Laoudias\* (KIOS Research Center, Cyprus), George Constantinou, Marios Constantinides, Silouanos Nicolaou, Demetris Zeinalipour, Christos Panayiotou (Department of Computer Science, University of Cyprus)
- **MARS: A Personalised Mobile Activity Recognition System**  
João Bártolo Gomes\* (Universidad Politecnica Madrid), Shonali Krishnaswamy (I2R A-star Singapore), Mohamed Gaber (Portsmouth University, UK), Pedro Sousa (Universidade Nova Lisboa), Ernestina Menasalvas (Universidad Politecnica Madrid)
- **To Taxi or Not To Taxi? - Enabling Personalised and Real-Time Transportation Decisions for Mobile Users**  
Wei Wu\*, Singapore, Wee Siong Ng, Shonali Krishnaswamy (I2R A-star Singapore),, Abhijat Sinha (Monash University)
- **SmartP2P: A Multiobjective Framework for Finding Social Content in P2P Smartphone Networks**  
Andreas Konstantinidis\*, Christos Aplitiotis, Demetris Zeinalipour, (University of Cyprus)
- **A Demonstration of Mining Significant Places from Cell ID Trajectories through A Geo-grid based Approach**  
Tengfei Bao, Enhong Chen\*(USTC, China), Huanhuan Cao, Jilei Tian, (Nokia Research Center) Qiang Yang (Hong Kong Univ)
- **A Smart Mobile Application for Identifying Storage Location of Small Industrial Assets**  
Harikrishna Rai\*, K Sai Deepak, Radhakrishna P, Shahanaz Syed. (Infosys Labs, Infosys Limited, India)
- **SAWLnet: Sensitivity Aware Location cloaking on road-NETworks**  
Claudio Silvestri\* (Univ of Venice), Emre Yigitoglu, (TOBB Univ), Maria Damiani (Univ of Milan) , Osman Abul (TOBB University)
- **SimPI: A Simulation Platform for Elastic Load-Balancing in a Distributed Spatial Cache Overlay**  
Carlos Lubbe\*, Nazario Cipriani, (University of Stuttgart, Germany)
- **Building Activity Definitions to Recognize Complex Activities Using an Online Activity Toolkit**  
Saguna Saguna\* (Monash University), Arkady Zaslavsky (CSIRO), Dipanjan Chakraborty (IBM IRL)
- **Delivering Mobile eGovernance on Low-End-Phones**  
Thara S\*, Geetha Manjunath, Revathi M M, Harini Dhanasekharan, Priyanka Tiwari, Prosenjit Das (Hewlett Packard Labs, India)
- **Take Control of Your SMSes : Designing an Usable Spam SMS Filtering System**  
Kuldeep Yadav\*, Swetank Saha, Ponnurangam Kumaraguru (IIIT-Delhi), Rohit Kumra, (Delhi Technological University)
- **Misco: A System for Data Analysis Applications on Networks of Smartphones using MapReduce**  
Vana Kalogeraki\*, Ioannis Boutsis, Theofilos Kakantousis, (Athens U of Econ. and Business), Dimitrios Gunopulos, Georgios Gasparis, (University of Athens, Greece), Adam Dou, (Google Inc)



## **Industry Session**

Chair: Koustuv Dasgupta (Xerox Research)

### **Place learning via direct WiFi fingerprint clustering**

Olivier Dousse, Julien Eberle, Matthias Mertens (Nokia Research Center, Switzerland)

### **Mining Significant Places from Cell ID Trajectories: A Geo-grid based Approach**

Tengfei Bao (University of Science and Technology of China), Huanhuan Cao (Nokia Research Center),  
Qiang Yang (Hong Kong University of Science and Technology), Enhong Chen (University of Science and Technology of China),  
Jilei Tian (Nokia Research Center)

### **System Management with IBM Mobile Systems Remote - A Question of Power and Scale**

Jan S. Rellermeyer, Thomas H. Osiecki, Ernest A. Holloway, Patrick J. Bohrer, Michael Kistler (IBM Austin Research Lab)

### **Securing Enterprise Data on Smartphones using Run Time Information Flow Control**

Palanivel Kodeswaran, Vikrant Nandakumar, Shalini Kapoor, Sougata Mukherjea (IBM Research India),  
Pavan Kumar, Anupam Joshi (University of Maryland, Baltimore County),

### **Cityride: a predictive bike sharing journey advisor**

Ji Won Yoon, Fabio Pinelli, Francesco Calabrese (IBM Research, Dublin, Ireland)

## **Advanced Seminars**

Chair: Goce Trajcevski (Northwestern University), Dipanjan Chakraborty (IBM Research)

### **Mobile Data Stream Mining: From Algorithms To Applications** - [3 Hours]

Dr. Shonali Krishnaswamy , Institute for Infocomm Research (Singapore) and Monash University, Australia

Dr. Joao Gama University of Porto, Portugal and

Dr. Mohamed Medhat Gaber, University of Portsmouth, UK

### **Crowdsourcing: Dynamic Data Management in Mobile P2P Networks** [1.5 Hours]

Dr. Sanjay Kumar Madria, Missouri University of Science and Technology USA and

Dr. Anirban Mondal IIIT Delhi India