

## IDEAS'10 Final Program

### Registration-1

Date: 2010-08-16 From 08:45 To 16:30  
Time:  
Location: EV2-184

### Session: Opening & Data Integration

Date: 2010-08-16 From 09:25 To 11:00  
Time:  
Location: Ev3-309  
Chair: Bipin C Desai

#### -- Cluster-and-Conquer: Hierarchical Multi-metric Query Processing in Large-scale Database Federations

Di Wang (Worcester Polytechnic Institute, United States)

#### -- Fast Sorting on Flash Memory Sensor Nodes

Tyler A Cossentine, Ramon Lawrence (University of British Columbia, Canada)

#### -- Modeling Synchronized Time Series

Zoe Faget, Philippe Rigaux, Virginie Thion-Goasdoué, David Gross-Amblard (Universite Paris-Dauphine (Paris IX), France)

### Coffee Break 1

Date: 2010-08-16 From 11:00 To 11:25  
Time:  
Location: EV2-184

### Session: Access Methods and Data Structures

Date: 2010-08-16 From 11:30 To 13:00  
Time:  
Location: EV3-309  
Chair: Carson K. Leung

#### -- Indexing Source Descriptions based on Defined Classes

Ralph Lange, Frank Dürr, Kurt Rothermel (Universitat Stuttgart, Germany)

#### -- An Efficient Features-Based Processing Technique for Supergraph Queries

Sherif Sakr (University of New South Wales, Australia)

#### -- Effectively and Efficiently Selecting Access Control Rules on Materialized Views over Relational Databases

Alfredo Cuzzocrea (University of Calabria, Italy)

### Lunch 1

Date: 2010-08-16 From 13:00 To 14:00  
Time:  
Location: EV2-184

### Session: Peer-to-Peer Data Management

Date: 2010-08-16 From 14:00 To 15:20  
Time:  
Location: EV3-309  
Chair: Sergio Greco

#### -- Exploitation of Event-Semantics for Distributed Publish/Subscribe Systems in Massively Multiuser Virtual Environments

Thomas Fischer, Michael Daum, Florian Irmert, Christoph P. Neumann,

Richard K.A. Lenz (Friedrich-Alexander Universitat Erlangen-Nurnberg, Germany)

**-- Optimized Incremental ETL Jobs for Maintaining Data Warehouses**

Andreas Behrend, Thomas Jörg (Rheinische Friedrich-Wilhelms Universitat Bonn, Germany)

**-- Optimizing XML Twig Queries in Relational Systems**

Moad Maghaydah, Mehmet Ali Orgun, Imad Khazali (Macquarie University, Australia)

**Coffe Break 2**

Date: 2010-08-16 From 15:20 To 15:50  
Time:

Location: EV2-184

**Session: Bio-informatics/Life Sciences and Databases**

Date: 2010-08-16 From 15:50 To 17:20  
Time:

Location: EV3-309

Chair: Tongyuan Wang

**-- A 24/7 Monitorization Tool for Avoiding Hypotensive Episodes in Critical Care**

Ricardo Jorge Santos, Jorge Bernardino (Universidade de Coimbra, Portugal)

**-- Representation and Validation of Domain and Range Restrictions in a**

**Relational Database Driven Ontology Maintenance System**

Patrick G Edgett, LEONG LEE, Jennifer L Leopold, Alton B Coalter (Missouri University of Science and Technology, United States)

**-- How to Juggle Columns: An Entropy-Based Approach for Table Compression**

Marcus Paradies, Christian Lemke, Hasso Plattner, Wolfgang Lehner, Kai-Uwe Sattler, Alexander Zeier, Jens Krueger (Technische Universitat Ilmenau, Germany)

**BBQ-Reception**

Date: 2010-08-16 From 17:30 To 20:30  
Time:

Location: EV4-101

**Registration-2**

Date: 2010-08-17 From 08:45 To 16:30  
Time:

Location: EV2-184

**Session: Semi-structured Databases and XML**

Date: 2010-08-17 From 09:15 To 10:45  
Time:

Location: EV3-309

Chair: Gosta Grahne

**-- Certain Answers and Rewritings for Local Regular Path Queries on Graph-Structured Data**

Alex Thomo, Maryam Shoaran (University of Victoria, Canada)

**-- On the expressiveness of generalization rules for XPath query relaxation**

Bettina Fazzinga, Sergio Flesca, Filippo Furfaro (University of Calabria, Italy)

**-- An Integrative Approach to Query Optimization in Native XML Database Management Systems**

Andreas Matthias Weiner, Theo Haerder (Technische Universität Kaiserslautern, Germany)

**Coffe Break 3**

Date 2010-08-17 From 10:45 To 11:15  
 Time:  
 Location: EV2-184

**Session: Data Mining, OLAP, and Knowledge Discovery**

Date 2010-08-17 From 11:15 To 12:35  
 Time:  
 Location: EV3-309  
 Chair: Alfredo Cuzzocrea

**-- Automatic Parameter Determination in Subspace Clustering with Gravitation Function**

Jiwu Zhao (Universitat Dusseldorf, Germany)

**-- uCF2: An Enhanced System that Mines Uncertain Data for Constrained Frequent Sets**

Carson K. Leung (University of Manitoba, Canada)

**-- Indexing Forecast Models for Matching and Maintenance**

Ulrike Fischer, Frank Rosenthal, Matthias Boehm, Wolfgang Lehner (Technische Universitat Dresden, Germany)

**-- An Optimistic Concurrency Control Algorithm for Mobile Ad-hoc Network Databases**

Zhaowen Xing, Le Gruenwald (University of Oklahoma, United States)

**Lunch 2**

Date 2010-08-17 From 12:35 To 13:35  
 Time:  
 Location: EV2-184

**Session: Database Performance**

Date 2010-08-17 From 13:35 To 15:15  
 Time:  
 Location: EV3-309  
 Chair: Christie Ijeoma Ezeife

**-- Clean First or Dirty First? A Cost-Aware Self-Adaptive Buffer Replacement Policy**

Yi Ou, Theo Haerder (Technische Universität Kaiserslautern, Germany)

**-- Semantic Water Data Translation: A Knowledge-driven Approach**

Yanfeng Shu (CSIRO, Australia)

**-- Ambiguous Content and Disambiguation of XML Schemata**

Kalpdrum Passi (Laurentian University of Sudbury, Canada)

**-- Listen to the Customer - Model-driven Database Design**

Hannes Voigt, Kai Herrmann, Tim Kiefer, Wolfgang Lehner (Technische Universitat Dresden, Germany)

**Coffe Break 4**

Date 2010-08-17 From 15:15 To 15:45  
 Time:  
 Location: EV2-184

**Session: Fuzzy, Probabilistic, and Approximate Data**

Date 2010-08-17 From 15:45 To 17:05  
 Time:  
 Location: EV3-309  
 Chair: Alex Thomo

**-- Efficient RDF Data Management Including Provenance and Uncertainty**

James McGlothlin (University of Texas at Dallas, United States)

**-- A Logic Approach to Virtual Sensor Networks**

Luciano Caroprese, Carmela Comito, Domenico Talia, Ester Zumpano (University of Calabria, Italy)

**-- Using Monte Carlo simulation for improving Data Availability in P2P network**

Sanaullah Nazir (National University of Ireland, Galway, Ireland)

**-- OXDBS - Extension of a native XML Database System with Validation by Consistency Checking of OWL-DL Ontologies**

Christoph P. Neumann, Thomas Fischer, Richard K.A. Lenz (Friedrich-Alexander Universitat Erlangen-Nurnberg, Germany)

**Guided tour of Canadian Collection, MMFA, Dinner**Date: 2010-08-17 From 17:15 To 21:00  
Time:

Location: Michal &amp; Renata Hornstein Pavilion, Café des Beaux-Arts

**Registration-3**Date: 2010-08-18 From 08:45 To 11:30  
Time:

Location: EV2-184

**Session: Database Applications**Date: 2010-08-18 From 09:30 To 11:00  
Time:

Location: EV3-309

Chair: Kalpdrum Passi

**-- Cherry picking in Database Languages**

Bernhard Jaecksch, Wolfgang Lehner, Franz Xaver Faerber (SAP, Germany)

**-- Synchronous Metadata Management of Large Storage Systems**

Guenther Hackl, Wolfgang Pausch, Sebastian Schoenherr, Guenther Specht, Gunther Thiel (Universitat Innsbruck, Austria)

**-- Multi-resolution Approach to Time Series Retrieval**

Muhammad Marwan Muhammad Fuad, Pierre-François Marteau (Universite de Bretagne Sud, France)

**-- Selectivity-based XML Query Processing in Structured Peer-to-Peer Networks**

Carmela Comito, Domenico Talia, Paolo Trunfio (University of Calabria, Italy)

**Coffe Break 5**Date: 2010-08-18 From 11:00 To 11:30  
Time:

Location: EV2-184

**Session: Semi-structured Databases and XML - 2**Date: 2010-08-18 From 11:30 To 12:40  
Time:

Location: EV3-309

Chair: Benjamin C. M. Fung

**-- LTIX: A Compact Level-based Tree to Index XML Databases**

Samir A Mohammad (Queen's University, Canada)

**-- Multi-Level Bitmap Indexes for Flash Memory Storage**

John Wu, Kamesh Madduri (Lawrence Berkeley National Laboratoty, United States)

**-- Exploitation of Backup Nodes for Reducing Recovery Cost in High Availability Stream Processing Systems**

Kyoko Nagano, Tsuyoshi Itokawa, Teruaki Kitasuka, Masayoshi  
Aritsugi (Kumamoto University, Japan)

**-- NeuDetect: A Neural Network Data Mining Wireless Network Intrusion  
Detection System**

Christie Ijeoma Ezeife (University of Windsor, Canada)

**Lunch 3 & closing**

Date 2010-08-18 From 13:00 To 14:30

Time:

Location:

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