

36th International Conference on Very Large Data Bases

32010

Workshop Programs 13th and 17th Sept 2010 Grand Copthorne Waterfront Hotel







Very Large Data Bases



VLDB 2010 Co-Located Workshops

- QUALITY IN DATABASES (QDB) 6
- MANAGEMENT OF UNCERTAIN DATA (MUD) 8
 - ACCELERATING DATA MANAGEMENT 10 SYSTEMS (ADMS)
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PROGRAM AT A GLANCE

MON		A GLANCE					SEPT 13
Room	Galleria I	Galleria II	Galleria III	Cardinal	Falcon	Swallow	Lyrebird
9:00- 10:30	Workshop-1 QDB	Workshop-2 MUD	Workshop-3 ADMS	Workshop-4 PersDB	Workshop-5 Ph.D. Workshop	Workshop-6 DMSN	Workshop-7 BIRTE
10:30- 11:00	Coffee Break						
Room	Galleria I	Galleria II	Galleria III	Cardinal	Falcon	Swallow	Lyrebird
11:00- 12:30	Workshop-1 QDB	Workshop-2 MUD	Workshop-3 ADMS	Workshop-4 PersDB	Workshop-5 Ph.D. Workshop	Workshop-6 DMSN	Workshop-7 BIRTE
12:30- 14:00	Lunch ☺ Kiwi Lounge (Level 2)						
Room	Galleria I	Galleria II	Galleria III	Cardinal	Falcon	Swallow	Lyrebird
14:00- 15:30	Workshop-1 QDB	Workshop-2 MUD	Workshop-3 ADMS	Workshop-4 PersDB	Workshop-5 Ph.D. Workshop	Workshop-6 DMSN	Workshop-7 BIRTE
15:30- 16:00	Coffee Break						
Room	Galleria I	Galleria II	Galleria III	Cardinal	Falcon	Swallow	Lyrebird
16:00- 18:00	Workshop-1 QDB	Workshop-2 MUD	Workshop-3 ADMS	Workshop-4 PersDB	Workshop-5 Ph.D. Workshop	Workshop-6 DMSN	Workshop-7 BIRTE

FRI	DAY AT A GLANC	Ξ		SEPT 17				
Room	Cardinal	Falcon	Swallow	Lyrebird				
9:00- 10:30	Workshop-8 TPCTC	Workshop-9 XSym	Workshop-10 SDM	Workshop-11 SemData				
10:30- 11:00		Coffee	Coffee Break					
Room	Cardinal	Falcon	Swallow	Lyrebird				
11:00- 12:30	Workshop-8 TPCTC	Workshop-9 XSym	Workshop-10 SDM	Workshop-11 SemData				
12:30- 14:00	Lunch S Lunch Kiwi Lounge (Level 2)							
Room	Cardinal	Falcon	Swallow	Lyrebird				
14:00- 15:30	Workshop-8 TPCTC	Workshop-9 XSym	Workshop-10 SDM	Workshop-11 SemData				
15:30- 16:00	Coffee Break							
Room	Cardinal	Falcon	Swallow	Lyrebird				
16:00- 18:00	Workshop-8 TPCTC	Workshop-9 XSym	Workshop-10 SDM	Workshop-11 SemData				

8[™] INTERNATIONAL WORKSHOP ON QUALITY IN DATABASES (QDB)

LOCATION: GALLERIA I

MONDAY 9:00 - 10:30

Keynote – SOLOMON: Seeking the Truth via Copying Detection Speaker: Xin (Luna) Dong (AT & T Labs-Research, USA)

MONDAY 11:00 - 12:30

Research Session 1: Data Quality Metrics

<u>Quality Assessment Social Networks: A Novel Approach for Assessing the Quality of Information</u> on the Web

Tomas Knap, Irena Mlynkova

Deriving Effectiveness Measures for Data Quality Rules Lei Jiang, Alex Borgida, Daniele Barone, John Mylopoulos

Aggregation of data quality metrics using the Choquet integral Soumaya Ben Hassine-Guetari, Jérôme Darmont, Jean-Hugues Chauchat

MONDAY 14:00 - 15:30

Research Session 2: Data Quality Systems

Data Partitioning for Parallel Entity Matching

Toralf Kirsten, Lars Kolb, Michael Hartung, Anika Groß, Hanna Köpcke, Erhard Rahm

DuDe: The Duplicate Detection Toolkit

Uwe Draisbach, Felix Naumann

Improving Situation Awareness

Wolfgang Gottesheim, Norbert Baumgartner, Stefan Mitsch, Werner Retschitzegger, Wieland Schwinger

MONDAY 16:00 – 17:30

Research Session 3: Conditional Functional Dependencies

Extending Matching Rules with Conditions Shaoxu Song, Lei Chen, Jeffrey Yu

Discovering Conditional Functional Dependencies to Detect Data Inconsistencies Peter Yeh, Colin Puri



4[™] INTERNATIONAL WORKSHOP ON MANAGEMENT OF UNCERTAIN DATA (MUD)

LOCATION: GALLERIA II

MONDAY 9:00 – 10:00

Keynote – From MUD to MIRE: Managing Inherent Risk in the Enterprise Speaker: Peter Haas (IBM Almaden Research Center, USA)

MONDAY 10:00 - 10:30

Research Session 1: Provenance and Answer Explanation

Why so? or Why no? Functional Causality for Explaining Query Answers Alexandra Meliou, Wolfgang Gatterbauer, Katherine Moore, Dan Suciu

MONDAY 11:00 - 12:30

Research Session 2: Non-relational UDBMSs

Extending Magic Sets Techniques to Deductive Databases with Uncertainty Qiong Huang, Nematollah Shiri

Storing and Querying Probabilistic XML Using a Probabilistic Relational DBMS Emiel Hollander, Maurice van Keulen

Time-Aware Reasoning in Uncertain Knowledge Bases

Yafang Wang, Mohamed Yahya, Martin Theobald "

MONDAY 14:00 – 15:30

Research Session 3: Query Processing in UDBMSs

<u>Ouery Containment for Databases with Uncertainty and Lineage</u> Foto Afrati, Angelos Vasilakopoulos

Dissociation and Propagation for Efficient Query Evaluation over Probabilistic Databases Wolfgang Gatterbauer, Abhay K. Jha, Dan Suciu

Generalized Uncertain Databases: First Steps

Parag Agrawal, Jennifer Widom

MONDAY 16:00 - 17:30

Research Session 4: Applications of UDBMSs

Tuple Merging in Probabilistic Databases

Fabian Panse, Norbert Ritter

<u>Uncertain Databases in Collaborative Data Management</u> Reinhard Pichler, Vadim Savenkov, Sebastian Skritek, Hong-Linh Truong

Handling Uncertainty and Correlation in Decision Support

Katrin Eisenreich, Philipp Rösch



1ST INTERNATIONAL WORKSHOP ON ACCELERATING DATA MANAGEMENT SYSTEMS USING MODERN PROCESSOR AND STORAGE ARCHITECTURES (ADMS)

LOCATION: GALLERIA III
MONDAY 9:00 – 10:30
Keynote – NAND Flash as a New Memory Tier Speaker: Neil Carson (Fusion-io Inc., USA)
MONDAY 10:45 – 12:30
Research Session 1: Optimizing for Multi-core Processors Session Chair : Christian Lang
A Nearest Neighbor Data Structure for Graphics Hardware Lawrence Cayton (Max Planck Institute)
GPU-Based Speculative Query Processing for Database Operations Peter Benjamin Volk (Technische Universitat Dresden), Dirk Habich (Technische Universitat Dresden), Wolfgang Lehner (Technische Universitat Dresden)
Modeling Multithreaded Query Execution on Chip Multiprocessors Konstantinos Krikellas (Greenplum Inc.), Stratis Viglas (University of Edinburgh), Marcelo Cintra (University of Edinburgh)
On Transactional Memory, Spinlocks, and Database Transactions Khai Tran (University of Wisconsin Madison), Spyros Blanas (University of Wisconsin Madison), Jeffrey Naughton (University of Wisconsin Madison)

MONDAY 14:00 – 15:30

Research Session 2: Optimizing for Solid-State Storage

Session Chair: Rajesh Bordawekar

Building Large Storage Based On Flash Disks

Ilia Petrov (Technische Universitat Darmstadt), Guillermo Almeida (Technische Universitat Darmstadt), Alejandro Buchmann (Technische Universitat Darmstadt)

Buffered Bloom Filters on Solid State Storage

Mustafa Canim (The University of Texas at Dallas), George A. Mihaila (IBM Watson Research Center), Bishwaranjan Bhattacharjee (IBM Watson Research Center), Christian A. Lang (IBM Watson Research Center),Kenneth A. Ross (IBM Watson Research & Columbia University)

Towards SSD-ready Enterprise Platforms

Annie Foong (Intel), Bryan Veal (Intel), Frank Hady (Intel)

MONDAY 16:00 - 17:30

Panel: The Impact of Modern Hardware on Database Design and Implementation

Moderator: C. Mohan (IBM Almaden Research Center) Members: Anastasia Ailamaki (EPFL/CMU), Gustavo Alonso (ETH Zurich), Sumanta Chatterjee (Oracle Corporation), Pilar de Teodoro (European Space Agency)



WORKSHOP ON PERSONALIZED ACCESS, PROFILE MANAGEMENT, AND CONTEXT AWARENESS IN DATABASES (PERSDB)

LOCATION: CARDINAL

MONDAY 9:00 – 10:30

Research Session 1: Personalized Information Access

Session Chair: Mohamed Mokbel

Personalization through Query Explanation and Document Adaptation

Anthony Ventresque (NTU Singapore), Sylvie Cazalens (Universite de Nantes), Thomas Cerqueus (Universite de Nantes), Philippe Lamarre (Universite de Nantes), Gabriella Pasi (Universita di Milano Bicocca)

SQL QueRIE Recommendations: A Query Fragment-based Approach

Jayad Akbarnejad (San Jose State University), Magdalini Eirinaki (San Jose State University), Suju Koshy (San Jose State University), Duc On (San Jose State University), Neoklis Polyzotis (UC Santa Cruz)

MONDAY 11:00 - 12:30

Panel: Social vs. Personal

Moderator: Tiziana Catarci (Universita di Roma La Sapienza, Italy) Members: Magdalini Eirinaki (San Jose State University), Zoltan Gyongyi (Stanford University), Carlo Meghini (CNR), Mohamed Mokbel (University of Minnesota)

MONDAY 14:00 - 15:30

Research Session 2: Personalization and the Semantic Web

Session Chair: Carlo Meghini

Re-ranking Web Service Search Results Under Diverse User Preferences

Dimitrios Skoutas (L3S Research Center), Mohammad Alrifai (L3S Research Center), Wolfgang Nejdl (L3S Research Center)

Adapting Generic Web Structures with Semantic Web Technologies: A Cognitive Approach

Mario Belk (University of Cyprus), Panagiotis Germanakos (University of Cyprus), Nikos Tsianos (University of Athens), Zacharias Lekkas (University of Athens), Costas Mourlas (University of Athens), George Samaras (University of Cyprus)

MONDAY 16:00 - 17:30

Research Session 3: Evaluation Methodologies and Metrics

Session Chair: Magdalini Eirinaki

<u>A Benchmark for Context Data Management in Mobile Context-aware Applications</u> Nadine Froehlich (University Basel), Thorsten Moeller (University Basel), Steven Rose (University Basel), Heiko Schuldt (University Basel)

<u>Combining Preference Relations: Completeness and Consistency</u> Nicolas Spyratos (University of Paris South), Carlo Meghini (CNR)



WORKSHOP 5 PH.D. WORKSHOP

LOCATION: FALCON

MONDAY 9:00 - 10:30

Session 1: Performance

<u>UpStream: Storage-centric Load Management for Data Stream Processing Systems</u> Alexandru Moga (ETH Zurich, Switzerland)

Jumbo: Beyond MapReduce for Workload Balancing Sven Groot (The University of Tokyo, Japan)

A Distributed Event Stream Processing Framework for Materialized Views over Heterogeneous Data Sources

Mahesh Chaudhari (Arizona State University, USA)

Flying Yellow Elephant: Predictable and Efficient MapReduce in the Cloud Jörg Schad (Saarland University, Germany)

MONDAY 11:00 - 12:40

Session 2: Quality and Semantics

Guided Data Quality Improvement Through Direct/Indirect Interactions Mohamed Yakout (Purdue University, USA)

Data Quality Aware Query Systems

Naiem Yeganeh (The University of Queensland, Australia)

Search As You Type in Forms: Leveraging the Usability and the Functionality of Search Paradigm in Relational Databases

Hao Wu (Tsinghua University, China)

<u>String-Based Semantic Web Data Management Using Ternary B-Trees</u> Jürg Senn (University of Basel, Switzerland)

Bridging Semantic Gaps in Information Retrieval: Context-Based Approaches Cam-Tu Nguyen (Tohoku University, Japan)

MONDAY 14:00 – 15:40

Session 3: Architectures, Security, Queries

Secure Data Outsourcing Based on Threshold Secret Sharing: Towards a More Practical Solution Mohammad Ali Hadavi (Sharif University of Technology, Iran)

<u>Declarative Secure Distributed Systems</u> Wenchao Zhou (University of Pennsylvania, USA)

Traceable Peer-to-Peer Record Exchange

Fengrong Li (Nagoya University, Japan)

Spatiotemporal Pattern Queries

Mahmoud Sakr (FernUniversita t in Hagen, Germany)

The Mimicking Octopus: Towards a One-Size-Fits-All Database Architecture

Alekh Jindal (Saarland University, Germany)

MONDAY 16:00 - 17:20

Session 4: Mining and Merging

Mining Subspace Clusters: Enhanced Models, Efficient Algorithms and an Objective Evaluation Study Emmanuel Müller (RWTH Aachen University, Germany)

Eminander Maller (Kwitt Adchen Oniversity, Gernary)

<u>Research on Microarray Dataset Mining</u> Miao Wang (Northwestern Polytechnical University Northwestern, China)

Harnessing Data Management Technology for Web Mashups Development Ohad Greenshpan (Tel-Aviv University, Israel)

Towards A Unified Framework for Schema Merging

Xiang Li (RWTH Aachen University, Germany)

7ST INTERNATIONAL WORKSHOP ON DATA MANAGEMENT SYSTEMS FOR SENSOR NETWORKS (DMSN)

LOCATION: SWALLOW

MONDAY 9:00 – 10:30

Keynote - What's NExT? Sensor + Cloud!?

Speaker: Kian-Lee Tan (National University of Singapore, Singapore)

MONDAY 11:00 - 12:30

Research Session 1: Data Provenance and Query Processing Session Chair: Yanlei Diao

Provenance-based Trustworthiness Assessment in Sensor Networks

Hyo-Sang Lim (Purdue University, USA), Yang-Sae Moon (Kangwon National University, South Korea), Elisa Bertino (Purdue University, USA)

Facilitating Fine Grained Data Provenance using Temporal Data Model

Mohammad R. Huq (University of Twente, Netherlands), Andreas Wombacher (University of Twente, Netherlands), Peter M. G. Apers (University of Twente, Netherlands)

Processing Strategies for Nested Complex Sequence Pattern Queries over Event Streams

Mo Liu (Worcester Polytechnic Institute, USA), Medhabi Ray (Worcester Polytechnic Institute, USA), Elke A. Rundensteiner (Worcester Polytechnic Institute, USA), Daniel J. Dougherty (Worcester Polytechnic Institute, USA), Chetan Gupta (HP Labs, USA), Song Wang (HP Labs, USA), Ismail Ari (Ozyegin University, Turkey), Abhay Mehta (HP Labs, USA)

MONDAY 14:00 – 15:30

Research Session 2: Mobile Sensor Networks and Outlier Detection Session Chair: Xueyan Tang

Query Driven Data Collection and Data Forwarding in Intermittently Connected Mobile Sensor Networks

Wei Wu and Kian-Lee Tan (NUS, Singapore)

DEMS: A Data Mining Based Technique to Handle Missing Data in Mobile Sensor Network Applications

Le Gruenwald, Md. Shiblee Sadik, Rahul Shukla and Hanqing Yang (University of Oklahoma, USA)

PAO: Power-Efficient Attribution of Outliers in Wireless Sensor Networks

Nikos Giatrakos (University of Piraeus, Greece), Yannis Kotidis (AUEB, Greece), Antonios Deligiannakis (Technical University of Crete, Greece)

MONDAY 16:00 - 17:30

Panel: Future Directions in Sensor Data Management

Moderator: Demetris Zeinalipour (University of Cyprus, Cyprus)

Members: Yanlei Diao (University of Massachusetts - Amherst, USA), Le Gruenwald (National Science Foundation, USA), Christian S. Jensen (Aarhus University, Denmark), Kian-Lee Tan (National University of Singapore, Singapore)



WORKSHOP ON ENABLING REAL-TIME BUSINESS INTELLIGENCE (BIRTE)

LOCATION: LYREBIRD

MONDAY 9:00 - 10:30

Keynote 1 – Temporal Knowledge for Timely Intelligence Speaker: Gerhard Weikum (Max Planck Institute for Informatics, Germany)

MONDAY 11:00 - 12:30

Research Session 1

Augmenting Tables by Self-Supervised Web Search

Alexander Loeser (University of Technology Berlin), Christoph Nagel (University of Technology Berlin), Stephan Pieper (University of Technology Berlin)

Data Quality is Context Dependent

Leo Bertossi (Carleton University), Flavio Rizzolo (Carleton University), Lei Jiang (University of Toronto)

Handling of Uncertainty and Temporal Indeterminacy for What-if Analysis Katrin Eisenreich (SAP Research), Volker Markl (University of Technology Berlin), Philipp Rosch (SAP AG)

MONDAY 14:00 - 15:40

Keynote 2 – HyPer: A Hybrid OLTP & OLAP High Performance Main Memory Database System Based on Virtual Memory Snapshots

Speaker: Alfons Kemper and Thomas Neumann (Technical University of Munich)

Building Enterprise Class Real-Time Energy Efficient Decision Support Systems Meikel Poess (Oracle), Ragunath Nambiar (CISCO)

MONDAY 16:00 – 18:00

Keynote 3 – TBA

Speaker: Julio Navas (SAP)

Nested Complex Event Processing for Real-Time Event Analytics

Mo Liu (Worcester Polytechnic Institute), Elke Rundensteiner (Worcester Polytechnic Institute), Dan Dougherty (Worcester Polytechnic Institute)

An Efficient Heuristic for Logical Optimization of ETL Workflows

Nitin Kumar (IIT Madras), P Sreenivasa Kumar (IIT Madras)



TPC TECHNOLOGY CONFERENCE ON PERFORMANCE EVALUATION AND BENCHMARKING (TPCTC)

LOCATION: CARDINAL

FRIDAY 9:00 – 9:30

TPC Public Relations Presentation – Transaction Processing Performance Council (TPC): State of the Council 2010

Raghunath Nambiar (Cisco Systems, Inc., USA), Nicholas Wakou (Dell, Inc., USA), Forrest Carman (Owen Media, USA), Michael Majdalany (LoBue & Majdalany Magt Group, USA)

FRIDAY 9:30 - 10:40

Session 1:

Liquid Benchmarks: Towards An Online Platform for Collaborative Assessment of Scientific Research Results

Sherif Sakr (University of New South Wales, Australia), Fabio Casati (University of Trento, Italy)

A Discussion on the Design of Graph Database Benchmarks

D. Dominguez-Sal, N. Martinez-Bazan, V. Muntes-Mulero, Pere Baleta, J. L. Larriba-Pey (DAMA-UPC, Spain)

A Data Generator for Cloud-Scale Benchmarking

Tilmann Rabl, Michael Frank, Hatem Mousselly Sergieh, Harald Kosch (University of Passau, Germany)

How to Advance TPC Benchmarks with Dependability Aspects

Raquel Almeida (University of Coimbra, Portugal), Meikel Poess (Oracle Corporation, USA), Raghunath Nambiar (Cisco Systems, Inc., USA), Indira Patil (Hewlett-Packard Company, USA), Marco Vieira (University of Coimbra, Portugal)

FRIDAY 11:00 – 12:30

Invited Talk: Price and the TPC Speaker: Karl Huppler (IBM, USA)

Keynote: Implications of Storage Class Memories (SCMs) on Software Architecture Speaker: C. Mohan (IBM Almaden Research Center, USA)

FRIDAY 14:00 – 16:00

Session 2:

EXRT: Towards a Simple Benchmark for XML Readiness Testing

Michael J. Carey (University of California-Irvine, USA), Ling Ling (University of California-Irvine, USA), Matthias Nicola (IBM Silicon Valley Lab, USA), Lin Shao (University of California-Irvine, USA)

Transaction Performance vs. Moore's Law: A Trend Analysis

Meikel Poess (Oracle Corporation, USA), Raghunath Nambiar (Cisco Systems, Inc., USA)

<u>TPC-V: Genesis of a New Benchmark for Evaluating the Performance of Database Applications in</u> <u>Virtual Environments</u>

Priya Sethuraman (VMware, Inc., USA), H. Reza Taheri (VMware, Inc., USA)

First TPC-Energy Benchmark: Lessons Learned in Practice

Erik Young (Hewlett-Packard Company, USA), Paul Cao (Hewlett-Packard Company, USA), Mike Nikolaiev (Hewlett-Packard Company, USA)

Using Solid State Drives As a Mid-Tier Cache In Enterprise OLTP Applications

Badriddine M. Khessib (Microsoft Corporation, USA), Kushagra Vaid, Sriram Sankar (Microsoft Corporation, USA), Chengliang Zhang (Microsoft Corporation, USA)

FRIDAY 16:30 - 18:00

Session 3:

A Benchmark for Adaptive Indexing

Goetz Graefe (Hewlett-Packard Labs, USA), Stratos Idreos (CWI Amsterdam, The Netherlands), Harumi Kuno (Hewlett-Packard Labs, USA), Stefan Manegold (CWI Amsterdam, The Netherlands)

XWeB: the XML Warehouse Benchmark

Hadj Mahboubi (CEMAGREF Clermont-Ferrand, France), Jerome Darmont (CEMAGREF Clermont-Ferrand, France)

Benchmarking Using Basic DBMS Operations

Alain Crolotte (Teradata Corporation, USA), Ahmad Ghazal (Teradata Corporation, USA)

Assessing and Optimizing Microarchitectural Performance of Event Processing Systems

Marcelo R.N. Mendes (University of Coimbra, Portugal), Pedro Bizarro (University of Coimbra, Portugal), Paulo Marques (University of Coimbra, Portugal)

7st INTERNATIONAL XML DATABASE SYMPOSIUM (XSYM)

LOCATION: FALCON

FRIDAY 9:00 - 10:30

Keynote – Distributed XML Query Processing

Session Chair: Jeffrey Xu Yu **Speaker:** Tamer Ozsu (University of Waterloo, Canada)

FRIDAY 11:00 - 12:30

Research Session 1: XML Query Processing

Session Chair: Toshiyuki Amagasa

Approximate Joins for XML Using g-String Fei Li (Harbin Institute of Technology, China), Hongzhi Wang (Harbin Institute of Technology, China), Cheng Zhang (Harbin Institute of Technology, China), Liang Hao (Harbin Institute of Technology, China), Jianzhong Li (Harbin Institute of Technology, China), Hong Gao (Harbin Institute of Technology, China)

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Linear F&B-index Construction for Trees

Nils Grimsmo (Norwegian University of Science and Technology, Norway), Truls Amundsen Bjorklund (Norwegian University of Science and Technology, Norway), Magnus Lie Hetland (Norwegian University of Science and Technology, Norway)

Extending the Tractability Results on XPath Satisfiability with Sibling Axes

Yasunori Ishihara (Osaka University, Japan), Shogo Shimizu (Advanced Institute of Industrial Technology, Japan), Toru Fujiwara (Osaka University, Japan)

Extending XQuery With A Pattern Matching Facility

Peter Fischer (ETH Zurich, Switzerland), Aayush Garg (ETH Zurich, Switzerland), Kyumars Sheykh Esmaili (ETH Zurich, Switzerland)

FRIDAY 14:00 - 15:30

Research Session 2: XML Update and Applications

Session Chair: Flavio Ferrarotti

A Schema-Based Translation of XQuery Updates

Leonidas Fegaras (University of Texas at Arlington, USA)

EBSL: Supporting Deleted Node Label Reuse in XML

Martin F. O'Connor (Dublin City University, Ireland), Mark Roantree (Dublin City University, Ireland)

Lessons Learned from DB2 pureXML Applications: A Practitioner's Perspective

Matthias Nicola (IBM Silicon Valley Lab, USA)

Searchable Compression of Office Documents by XML Schema Subtraction

Stefan Byttcher (University of Paderborn, Germany), Rita Hartel (University of Paderborn, Germany), Christian Messinger (University of Paderborn, Germany)

FRIDAY 16:00 – 17:30

Research Session 3: XML Modeling

Session Chair: Mong Li Lee

Fast Detection of Functional Dependencies in XML Data

Hang Shi (University of Tsukuba, Japan), Toshiyuki Amagasa (University of Tsukuba, Japan), Hiroyuki Kitagawa (University of Tsukuba, Japan)

TP+Output: modeling complex output information in XML twig pattern query

Huayu Wu (National University of Singapore, Singapore), Tok Wang Ling (National University of Singapore, Singapore), Gillian Dobbie (University of Auckland, New Zealand)

Promoting the Semantic Capability of XML Keys

Flavio Ferrarotti (Victoria University of Wellington, New Zealand), Sven Hartmann (Clausthal University of Technology, Germany), Sebastian Link (Victoria University of Wellington, New Zealand), Jing Wang (Massey University, New Zealand)

7ST VLDB WORKSHOP ON SECURE DATA MANAGEMENT (SDM)

LOCATION: SWALLOW

FRIDAY 9:00 – 10:00

Keynote – Assuring Data Trustworthiness – Concepts and Research Challenges Speaker: Elisa Bertino (Purdue University, USA)

FRIDAY 10:00 - 10:30

Session 1:

Joining Privately on Outsourced Data Bogdan Carbunar and Radu Sion

FRIDAY 11:00 - 12:30

Session 2: Security in Healthcare

Privacy Preserving Event Driven Integration for Interoperating Social and Health Systems Giampaolo Armellin, Dario Betti, Fabio Casati, Annamaria Chiasera, Gloria Martinez, and Jovan Stevovic

2010

Towards the Secure Modelling of OLAP Users' Behaviour Carlos Blanco, Eduardo Fernandez-Medina, Juan Trujillo, and Jan Jurjens

Computationally Efficient Searchable Symmetric Encryption Peter van Liesdonk, Saeed Sedghi, Jeroen Doumen, Pieter Hartel, and Willem Jonker

FRIDAY 14:00 - 15:30

Session 3:

On-the-Fly Hierarchies for Numerical Attributes in Data Anonymization Alina Campan and Nicholas Cooper

eM2: An Efficient Member Migration Algorithm for Ensuring k-Anonymity and Mitigating Information Loss

Phuong Huynh Van Quoc and Tran Khanh Dang

Constrained Anonymization of Production Data: A Constraint Satisfaction Problem Approach Ran Yahalom, Erez Shmueli, and Tomer Zrihen

FRIDAY 16:00 – 17:30

Session 4:

A Formal P3P Semantics for Composite Services

Assadarat Khurat, Dieter Gollmann, and Joerg Abendroth

<u>A Geometric Approach for Efficient Licenses Validation in DRM</u> Amit Sachan, Sabu Emmanuel, and Mohan S. Kankanhalli

Differentially Private Data Release through Multidimensional Partitioning

Yonghui Xiao, Li Xiong, and Chun Yuan



WORKSHOP 11 SEMANTIC DATA MANAGEMENT (SEMDATA)

LOCATION: LYREBIRD

FRIDAY 9:00 - 9:30

Welcome and Presentation of SemData Initiative

Reto Krummenacher, Atanas Kiryakov, Karl Aberer and Rajaraman Kanagasabai

FRIDAY 9:30 - 10:30

Research Session 1:

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SPAROL Query Answering on a Shared-Nothing Architecture
Spyros Kotoulas and Jacopo Urbani
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Optimizing SPAROL queries over the Web of Linked Data Kuldeep B.R Reddy and Sreenivasa P. Kumar

FRIDAY 11:00 - 12:30

Industry Session:

Directions and Challenges for Semdata Orri Erling (OpenLink Software/Virtuoso)

The Features of BigOWLIM that Enabled the BBC's World Cup Website

Atanas Kiryakov, Barry Bishoa, Damyan Ognyanoff, Ivan Peikov, Zdravko Tashev, Ruslan Velkov (Ontotext/OWLIM).

New Developments in AllegroGraph

Jans Aasman (Franz Inc/AllegroGraph)

FRIDAY 14:00 – 15:00

Research Session 2:

SpiderStore: Exploiting Main Memory for Efficient RDF Graph Representation and Fast Querying Robert Binna, Wolfgang Gassler, Eva Zangerle, Dominic Pacher and Günther Specht

Structure Index for RDF Data

Thanh Tran and Günter Ladwig.

FRIDAY 16:00 – 17:30

Q&A and Panel

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