



This document records the final program for each of the 26 meetings of the International Database and Engineering Application Symposia from 1997 through 2021. These meetings were organized in various locations on three continents. Most of the papers published during these years may be listed in the digital libraries of IEEE(1997-2007) or ACM(2008-2021).

It is hoped that the bringing together of the final programs and the authors would be useful for recoding the many contributions made by the participants. Alas, some of them are no longer with us. We, the survivors, fondly remember our personal encounters with them and the comraderie that developed.

This series as well as its steering committee and the logo<sup>1</sup> is now retiring

Bipin C. Desai  
Retiring General Chair 1997-2021  
Montreal, June 2022

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<sup>1</sup>The logo is copyrighted by Lettie and we are thankful to her for its use for IDEAS.



### International Database Engineering & Applications Symposium

The aim of the IDEAS series of symposiums is to address the **engineering and application** aspects of databases. The symposium provides an international forum for discussion of the problems of engineering database systems involving not only database technology but the related areas of information retrieval, multimedia, human machine interface and communication. The goal of IDEAS is to foster closer interaction among the industrial, research and user communities and provides an excellent opportunity for them to meet, discuss ideas, examine the current ones and develop new solutions and research directions. Along with the technical sessions, the symposium also features prominent invited speakers. IDEAS series of symposiums are scheduled annually and have been held since 1997 in North America, Europe and Asia. It has attracted participants from governmental and non-governmental agencies, industries, and academia to exchange ideas and share experiences.

**Organized by**  
Concordia University, Montreal, Canada;  
with the cooperation of ACM, BytePress and ConfSys

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#### Guide

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Grace Period  
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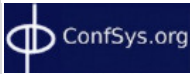

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IDEAS	=====	Guide
IDEAS97	<b>IDEAS97 Program</b>	Security Certificate
Final Program	<p>=====</p> <p>..... Monday August 25, 1997 .....</p> <p>Opening session:(09:00 - 10:30)  Symposium Opening Chair: Bipin C Desai  Welcome message  C. Lam (Chair, Computer Science), Jack Lighstone (Vice Rector Academic and Provost)  Invited Talk: DB Engineering -have we reached the third age?  W. A. Gray (UK)  Morning break: (10:30 - 11:00)  Paper session 1: (11:00 - 12:30)  User Interfaces to Databases  Chair: Farshad Fotouhi  Using Active Constructs in User-Interfaces to Object-Oriented Databases  Kenneth J Mitchell, Jessie B Kennedy, Peter J Barclay (UK)  A Graphical Interface for Cooperative Access to Distributed and Heterogeneous Database Systems  Xuequn Wu, Norbert Weissenberg (Germany)  A visual query interface for a customisable schema visualisation system  A.P. Madurapperuma, W.A. Gray, N.J. Fiddian (UK)  An OODBMS Graphical Development Environment  Bipin C. Desai, Khaled Jababo (Canada)  LUNCH (12:30 - 14:00)  Paper session 2: Database Engineering I: (14:00 - 16:00)  (Transaction engineering/processing)  Chair: Lois Delcambre  Optimal View Selection for Multidimensional Database Systems  Elena Soutyrina, Farshad Fotouhi (USA)  Accommodating Logical Logging under Fuzzy Checkpointing in Main Memory Databases  Seungkyoon Woo, Myoung Ho Kim, Yoom Joon Lee (Korea)  Multidatabase Query Optimization: Tree Balance and Node Allocation  Yangjun Chen, Wolfgang Benn (Germany)  Alternative Correctness Criteria for Multiversion Concurrency Control and a Locking Protocol via Freezing  Chanjung Park, Seog Park (Korea)  Afternoon break: (16:00 - 16:30)  Paper session 3: Data management I (16:30 - 18:15)  (Distribution and Interoperability)  Chair: Peter Revesz  Detection of Access Control Flaws in a Distributed Database System with Local Site Autonomy  Yaowadee Temtanapat, David Spoonert (USA)  A Minimal-Model Based Horizontal Fragmentation Algorithm for Disjunctive Deductive Databases  Aparna Seetharaman, Yiu-Kai Ng (USA)  A Replica Control Method for improving Availability for Read-only Transactions  Chang Sup Park, Myoung Kim, Yoom Joom Lee (Korea)  An Analysis of Database Rules  John Debenham (Australia)  Monday Evening: RECEPTION (18:30 - 20:00)  ..... Tuesday, August 26, 1997 .....</p> <p>Paper session 4: Database Applications and Enhancements (09:00 - 10:30)  (OODBMS and RDMS)  Chair: Anne Pons  A Case Study for the Management of a Set of Spectrally Analysed Signals Based on OODBMS  Markos N. Dendrinis(Greece)  Sequence comparison using a relational database approach  Andre Bergholz, Stephan Heyman, Jerg Schenk, Johann Freytag (Germany)  MLPQ: A Linear Constraint Database System with Aggregate Operators  Peter Revesz, Yiming Li (USA)  Exception-Handling Extension for an Object-oriented DBMS  Holger M. Kienle, Paul J. Fortier(USA)  A New Data Abstraction Layer Required For OODBMS  Eun-Sun Cho, Sang-Yong Han, Hyoung-Joo Kim (Korea)  Morning break: (10:30 - 11:00)</p> <p>Paper session 5: New and demanding Applications I (11:00 - 12:45)  (Data warehouses and Scientific Databases)  Chair: Barry Eaglestone  A Uniform Approach for Selecting Views and Indexes in a Data Warehouse  Christie Ezeife (Canada)  A Generalised Storage Model for Tertiary Storage Based Systems  Rahul V. Tikekar, Farshad Fotouhi, Don P. Ragan (USA)  Bottom-up Scientific Databases Based on Sets and Their Top-Down Usage  Mitsuru Nakata, Teruhisa Hochin, Tatsuo Tsuji (Japan)  Database System Support for Multidimensional Data Analysis in Environmental Epidemiology  Vera Kamp, Frank Wietek (Germany)  LUNCH (12:45 - 14:00)</p>	Submission Author/User FAQ Author Help Grace Period Embedding Fonts
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Paper session 6: New and demanding applications II (14:00 - 15:45)  
 (Electronic Commerce and the Web)  
 Chair: Lois Delcambre  
 Evolving Databases: An application to Electronic Commerce  
 Bradley Fordham, Serge Abiteboul, Yelena Yesha (France)  
 A Formal Specification Strategy for Electronic commerce  
 Sylvanus A. Ehikioya, Ken Barker (Canada)  
 A Web-based Animator for Validating Object Specifications  
 Mark Richters, Martin Gogolla (Germany)  
 Dynamic Object Recomposition for Active Information Systems on Mobile  
 Environment  
 Yuuichi Teranishi, Fumiyuki Tanemo, Yoshihiro Umemoto (Japan)  
 Afternoon break: (15:45 - 16:15)  
 Paper session 7: New and demanding applications III (16:15 - 18:15)  
 (CSCW and Distance Learning)  
 Chair: Bradley Fordham  
 Advanced Database Functions for Distance Education System: VIEW Classroom  
 Osami Kagawa, Yahiko Kambayashi (Japan)  
 Database support for conflict detection in a Computer-Supported Cooperative  
 Work Environment  
 Donald. R. Schwarz (USA)  
 OFEM: An Approach towards Detection and Reduction of Objectives Inconsistencies  
 William Wei Song (Sweden)  
 Modelling a Faster Data Warehouse  
 Joseph H. Hanson, Mary Jane Willshire (USA)  
 Tuesday Evening: Panel Session (19:00 - 20:30)  
 "Data Modelling, Database and the Web"  
 L. Delcambre, W. A. Gray, B. Eaglestone, B. Fordham  
 Moderator: Bipin C. Desai  
 ..... Wednesday, August 27, 1997.....  
 Paper session 8: New and demanding applications IV (09:00 - 10:30)  
 (Spatial data and handwriting!)  
 Chair: Mengchi Liu  
 Spatial Similarity-based Retrievals and Image Indexing By Hierarchical  
 Decomposition  
 Imran Ahmad, William I. Grosky (USA)  
 Efficient Processing of Spatial Selection and Join Operations using SB+-Tree  
 Azzam Ibrahim, Farshad Fotouhi, Amer Al-Badarneth (USA)  
 Indexing Non-uniform Spatial Data  
 K V Ravi Kanth, Amr El Abbadi, D. Agrawal, Ambuj Singh (USA)  
 Multi-attribute Lexicon Generation by Hyper-linked Embedded Access Structure  
 Wen-jann Yang, Ramalingam Sridhar, Paul Palumbo (USA)  
 Morning break: (10:30 - 11:00)  
 Paper session 9: Data management II (11:00 - 12:45)  
 (Query Optimisation)  
 Chair: Yangjun Chen  
 Multi-view Memory To Support OS Locking for Transaction Systems  
 P. Bodorik, D.N. Jutla (Canada)  
 A Fast Transformation Method for Semantic Query Optimisation  
 Ayla Sayli, B.G.T. Lowden (UK)  
 Query Processing in the ROL system  
 Mengchi Liu and Weidong Yu (Canada)  
 Design and Evaluation of the Mechanism for Object References in a Parallel  
 Object-Oriented Database System  
 Kenji Imasaki, Hirofumi Amano, Akifumi Makinouchi (Japan)  
 LUNCH (12:45 - 14:00)  
 Paper session 10: Database engineering II (14:00 - 15:30)  
 (Temporal aspects)  
 Chair: Dawn Jutla  
 A Proposal for Indexing Bitemporal Databases via Cooperative B+-trees  
 Mario A. Nascimento, Margaret H. Dunham (USA)  
 OSQL: An Extension to SQL to Manipulate Ordered Relational Databases  
 Wilfred Ng, Mark Levene (UK)  
 Schema Evolution in Object Databases by Catalogs  
 Anne Pons, Rudolf K. Keller (Canada)  
 Afternoon break: (15:30 - 16:00)  
 Paper session 11: New and Demanding applications V (16:00 - 17:30)  
 (Document and bibliographic databases)  
 Chair: Barry Eaglestone  
 Interfacing Online Bibliographic Databases with Z39.50  
 Andreas Ludwig, Peter Becker, Ulrich Guentzer (Germany)  
 On the Application of Parallel Database Technology for Large Scale Document  
 Management Systems  
 Alexander Clausnitzer, Michael Jaedicke, Bernhard Mitschang, Clara  
 Nippl, Angelika Reiser, Stephan Zimmermann (Germany)  
 An Extended Inverted File Approach for Information Retrieval  
 Iadh Ounis, Marius Pasca (France)  
 Wednesday Evening: Dinner and Closing (19:00 - ?? )  
 Chair: one for all participants and a few lucky ones ;)  
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IDEAS
IDEAS98
Final Program

----- IDEAS98 Program -----
<b>Wednesday 8th July</b>
<b>8:00 - 9:00: Registration</b>
<b>IDEAS98 Opening Bipin C. Desai</b>
<b>Session 1: IDEAS98 Invited Talk Chair: Mike Jackson 9:00 - 10:15</b>
<b>How to do a Five-year Application Development Project in Six Months, Jeff Walker, Tenfold Corp. U.S.A.</b>
<b>10:15 - 10:45 Coffee Break</b>
<b>Session 2: Temporal Issues Chair: Ted Lawson 10:45 - 12:45</b>
<b>K. Torp, C.S. Jensen and R.T. Snodgrass, Denmark/USA Stratum Approaches to Temporal DBMS Implementation</b>
<b>N. Tryfona and T. Hadzilacos, Denmark/Greece Logical data modeling of Spatio Temporal Applications:Definitions and A Model</b>
<b>B. Benatallah and Z. Tari, Australia Dealing with Version Pertinence to Design An Efficient Schema Evolution</b>
<b>K. Schwarz, C. Turker and G. Saake, Germany Transitive Dependencies in Transaction Closures</b>
<b>12:45 - 14:00 Lunch</b>
<b>Session 3: Short papers/Posters Chair: Jianhua Shao 14:00 - 14:30</b>
<b>C.R. Saravanan, R.J. Peters and K Barker, Canada WWW in DSM</b>
<b>P. Beynon-Davies, C. Carne, H. Mackay and D. Tudhope, UK Rapid Application Development and Database Engineering</b>
<b>V. Kamp and STARS-team, Germany Database System Support for Spatio-Temporal Aspects in Scientific Applications</b>
<b>W.Z. Mao and D.A. Bell, UK Interactive Query for Image Contents by Semantic Cases and Multi-Agent</b>
<b>V.A.J. Maller and S.N. Shekdrake, UK Storage Sub-system interfaces to Support Large Functional Databases</b>
<b>A. Faulconbridge, UK The Implementation of DESCRIBE</b>
<b>Session 4: Data Mining Chair: Rokia Missaoui 14:30 - 16:00</b>
<b>M. Wang, B. Iyer and J. S. Vitter, USA Scalable Mining for Classification Rules in Relational Databases</b>
<b>C.H. Cai, A.W. Fu, C.H. Cheng and W.W. Kwong, Hong Kong Mining Association Rules with Weighted Items</b>
<b>J. Albrecht and W. Lehner, Germany On-line Analytical Processing in Distributed Data Warehouses</b>
<b>16:00 - 16:30: Tea Break / Posters</b>
<b>Session 5: Panel Session Chair: Alex Gray 16:30 - 18:00</b>
<b>Future of Database Application Development: Faster, Cheaper and Better? Panelist: Jeff Walker(Tenfold), Chris Pound(BT), Ken Barker(Manitoba), Roger Tagg(Massey)</b>

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Submission  
Author/User FAQ  
Author Help  
Grace Period  
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**IDEAS98 Reception at Techniquest**

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**Thursday 9th July**

**Session 6: Invited Talk**

**Chair: Bipin C. Desai**

**9:00 - 10:15 Integration of OLAP and Data Mining**  
**Jiawei Han, Simon Fraser, Canada**

**10:15 - 10:45 Coffee Break / Posters**

**Session 7: Advanced Applications**

**Chair: Jianhua Shao**

**10:45 - 12:45**

**S. K. Madria, Malaysia**

**A Transaction Model for Mobile Computing**  
**A.P. de Vries, B. Eberman and D.E. Kovalcin, The Netherlands**  
**The Design and Implementation of An Infrastructure for Multimedia**  
**Digital Libraries**

**W.P. Cockshott, D. McGregor, N. Kotsis and J. Wilson, UK**

**Data Compression in Database Systems**

**I. Ounis and M. Pasca, France**

**A Promising Retrieval Algorithm for Systems Based on the Conceptual**  
**Graphs Formalism**

**12:45 - 14:00 Lunch**

**Session 8A: Object Database Systems I**

**Chair: Barry Eaglestone**

**14:00 - 16:00**

**K. Holtman, P. van der Stok and I. Willers, Switzerland/The Netherlands**  
**Automatic Re-clustering of Objects in Very Large Databases for**  
**High Energy Physics**

**V. Wietrzyk and M. A. Orgun, Australia**

**VERSANT Architecture: Supporting High - Performance Object Databases**

**J. Samos, F. Saltor and J. Sistac, Spain**

**Definition of Derived Classes in OODBs**

**D. Taniar and J.W. Rahayu, Australia**

**Parallel Collection-Equi Join Algorithms for Object-Oriented Databases**

**Session 8B: Modelling and CASE tools**

**Chair: Roger Tagg**

**14:00 - 16:00**

**T. Hochin, M. Nakata and T. Tsuji, Japan**

**A Flexible Kernel Data Model for Bottom-Up Databases and**  
**Management of Relationships**

**R. Orlandic, USA**

**Foundations of A Methodology of DBMS Decoupling for**

**Evolutionary Component DBMS Design**

**J. Gray and B. Ryan, Australia/UK**

**Technologies and Techniques for Rapid CASE Tool Development**

**A. Seetharaman and Y-K. Ng, USA**

**A Model-Forest Based Horizontal Fragmentation Approach for**  
**Disjunctive Deductive Databases**

**16:00 - 16:30 Tea break / Posters**

**Session 9: Web Applications**

**Chair: Ken Barker**

**16:30 - 18:00**

**B. Chidlovskii and U. M. Borghoff, France**

**Query Translation for Distributed Information Gathering on the Web**

**M. Montebello, W.A. Gray and S. Hurley, UK**

**Evolvable Intelligent User Interface for WWW Knowledge-Based Systems**

**M. A. Noronha and L. G. Golendziner, Brazil**

**Extending A Structured Document Model with Version Control**

**Conference Banquet in Cardiff Castle**

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**Friday 10th July**

**Session 10: Schema Semantics**

**Chair: Nick Fiddian**

**9:00 - 10:00**

**L. Palopoli, D. Sacca, and D. Ursino, Italy**

**Semi-automatic, Semantic Discovery of Properties from**

**Database Schemas**  
**W. Rahayu, E. Chang and T.S. Dillon, Australia**  
**Implementation of Object-Oriented Association Relationships**  
**in Relational Databases**

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**10:00 - 10:30 Coffee Break / Posters**

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**Session 11: Workflow and CSCW**

**Chair: Tom Carnduff**

**10:30 - 12:30**

**B. Eaglestone, B.C. Desai, R. Holton and E. Gulatee UK/Canada**  
**Temporal Database Support for Cooperative Creative Work**  
**Z. Peng and Y. Kambayashi, Japan**  
**Realization of Computer Supported Cooperative Work Environments**  
**Using the Object Deputy Model Framework**

**R. Tagg and W. Lelatanavit, New Zealand**  
**Using An Active DBMS to Implement A Workflow Engine**  
**R McClatchey and et al.,UK/Switzerland/France**  
**The Integration of Product Data and Workflow Management Systems**  
**in A Large Scale Engineering Database Application**

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**Session 12: Closing session and IDEAS99**

**Chair: Bipin C. Desai**

**12:30 - 12:45**

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**12:45 - 14:00 Lunch**

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**Bipin C. DESAI, General Chair**  
**Last modified: July 1998**

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IDEAS
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**IDEAS'99**  
**3th International Database Engineering & Applications Symposium**

**August 2-4 1999**  
**Montreal, Canada**

**FINAL PROGRAM**

The symposium provides an international forum for discussion of the problems of engineering database systems involving not only database technology but the related areas of information retrieval, multimedia, human machine interface and communication. The goal of IDEAS is to foster closer interaction among the industrial, research and user communities and provide an excellent opportunity for them to meet, discuss ideas, examine the current ones and develop new solutions and research directions. Along with the technical sessions, the symposium also features prominent invited speakers. We invite participants from academia, computer and user industries, and government to share ideas and experiences.

IDEAS'99 is hosted by Concordia University and organised by the the Database Group at Concordia University and IDEAS in cooperation with IEEE. Sponsored by CRIM, IBM, Dept. of Computer Science, Faculty of Engineering and Computer Science and Concordia University.

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- **Speakers** Keynote Address: [Jeffrey Ullman \(Stanford\)](#), Invited: [Sham Navathe \(Georgia Tech\)](#), [M. Tamer Özsu \(Univ. Alberta\)](#)
- **Conference secretariat:** IDEAS '99, Computer Science, Concordia University, 1455 De Maisonneuve Blvd. Ouest, Montreal, H3G 1M8, CANADA. email: [ideas@cs.concordia.ca](mailto:ideas@cs.concordia.ca), fax: +1 514 848 8652, phone: +1 514 848 3000.
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There will be an informal get-together on Sunday at 19:30 in a nearby Sports Bar (Moe's 1050 de la Montagne). [Please see map](#)

Time:	Monday	Tuesday	Wednesday			
8:30-16:30	<b>Registration</b>					
9:00-	Invited talk	Keynote Speech	Invited talk			
10:15	M. Tamer Ozsu	Jeffrey D. Ullman	Sham Navathe			
10:15-10:45	<b>Coffee break</b>					
10:45-12:30	Query Optimization	OLAP and Data Mining	Transaction and Recovery			
12:30-14:00	<b>Lunch break</b>					
14:00-	Multi-	Modelling	View	Evaluation	Database	Trans. Proc.
15:45	Database		Maintenance & Analysis	Architecture	& Performance	
15:45-16:15	<b>Coffee break</b>					
16:15-18:00	Application of Clustering	Principles of DB	DB Engineering & User Issues			
18:00-20:00	<b>Reception</b>					
18:45-	<b>Dinner</b>					

**Monday: August 2, 1999**

8:40 - 12:30, 14:00 - 17:00 **Registration**

Foyer De Seve Theatre

9:00-10:15 **Session 1** **Invited talk**

Chair: **Bipin C. Desai** **De Seve Theatre**

**Welcome message**

*Issues in Multimedia Data Management* **M. Tamer Özsu** (Univ. Alberta)

10:15-10:45 **Coffee break**

10:45-12:30 **Session 2** **Query Optimisation**

Chair: **Alberto Mendelzon** **De Seve Theatre**

**Query Result Size Estimation Using a Novel Histogram-like Technique: The Rectangular Attribute Cardinality Map**

B. John Oommen, Murali Thiyagarajah

**Semantic Query Optimisation for ODMG-93 Databases**

M. F. van Bommel

**A Heuristics-Based Approach to Query Optimisation in Structured Document Databases**

Dunren Che, Karl Aberer

**Self-Organisation of Distributed Document Archives**

Dieter Merkl, Andreas Rauber

12:30-14:00 **Lunch break**

Guide

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Lunch will be provided

14:00-15:45 Session 3 Multi-DB

Chair: Jeffery Ullman De Seve Theatre

Integration of Semistructured Data with Partial and Inconsistent Information

Mengchi Liu, Tok Wang Ling, Tao Guan,

**A Schema Analysis and Reconciliation Tool Environment for Heterogeneous Databases**

Silvana Castano, Valeria De Antonellis

**Interoperable Databases: a Programming Language Approach**

Olivier Jautzy

**Feature Reduction and Database Maintenance in NETNEWS Classification**

Wen-Lin Hsu, Sheau-Dong Lang

14:00-15:45 Session 3a Modelling

Chair: Dawn Jutra H415

**Interactive Design of Object-Oriented Schema**

M. F. van Bommel

**SHB: A Strategic Hierarchy Builder for Managing Cooperative Heterogeneous Databases**

Christophe Nicolle, Nadine Cullot, Kokou Yetongnon

**ISIS: A Semantic Mediation Model and an Agent Based Architecture for GIS Interoperability**

Eric Leclercq, Djamal Benslimane, Kokou Yetongnon

**iWebDB - Web Site Administration based on Object-Relational Database Technology**

Henrik Loeser, Norbert Ritter

**SR Schemes: Spatial-match Iconic Image Representation**

Yeon-Jung Kim, Jae-Woo Chang

**A Method of Constructing Dynamic Schema Representing the Structure of Semistructured Data**

Teruhisa Hochin, Tatsuo Tsuji

15:45-16:15 Coffee break

16:15-18:00 Session 4 Application of Clustering

Chair: Tim Merret De Seve Theatre

**Dynamic Reorganization of Object Databases**

Vlad S. Wietrzyk, Mehmet A. Orgun

**New GDM-based Declustering Methods for Parallel Range Queries**

S.Kuo, M. Winslett, Y. Cho,

**Parallelizing User-Defined Functions in Distributed Object-Relational DBMS**

Kenneth W. Ng, Richard R. Muntz

18:00-20:00 Reception

Faculty Lounge: H767

**Tuesday: August 3, 1999**

8:45 - 12:30, 14:00 - 16:30 Registration

Foyer De Seve Theatre

9:00-10:15 Session 5 Keynote Speech

Chair: Laks Lakshmanan De Seve Theatre

*Some Advances in Data-Mining Techniques* Jeffrey D. Ullman(Stanford)

10:15-10:45 Coffee break

10:45-12:30 Session 6 OLAP and Data Mining

Chair: Tamer Özsu De Seve Theatre

**Efficient Mining for Association Rules with Relational Database Systems**

Karthick Rajamani, Alan Cox, Bala Iyer, Atul Chadha

**Management of Multidimensional Aggregates for Efficient Online**

**Analytical Processing**

J. Albrecht, A. Bauer, O. Deyerling, H. Gunzel, W. Hummer W. Lehner, L. Schlesinger

**Improving OLAP Performance by Multidimensional Hierarchical Clustering**

Volker Markl, Frank Ramsak, Rudolf Bayer,

**A Parallel Scalable Infrastructure for OLAP and Data Mining**

Sanjay Goil, Alok Choudhary

12:30-14:00 Lunch break

Free choice: on your own

14:00-15:45 Session 7 View Maintenance

Chair: Jarek Gryz De Seve Theatre

**A Model for Deferred View Maintenance**

Reda Alhajj, Ashraf Elnagar

**Incremental Maintenance of Nested Relational Views**

Jixue Liu, Millist Vincent, Mukesh Mohania

**The SDCC Framework for Integrating Existing Algorithms for Diverse Data**

**Warehouse Maintenance Tasks**

Xin Zhang, Elke A. Rundensteiner

**View Maintenance after View Synchronization**

Anisoara Nica, Elke A. Rundensteiner

14:00-15:45 Session 7a: Evaluation and Analysis

Chair: M. F. van Bommel H415

**Interactive Data Analysis on Numeric-data**

Hong Ki Chu, Man Hon Wong

**Hash-based Symmetric Data Structure and Join Algorithm for OLAP Applications**

Motomichi Toyama, Akira Ohara

**2D Topological and Direction Relations in the World of Minimum Bounding Circles**

Maytham Safar, Cyrus Shahabi

**A New Access Index for Fast Execution of Conjunctive Queries over Text Data**

Yuping Yang, Mukesh Singhal

**Concurrent Maintenance of Views Using Multiple Versions**

Sachin Kulkarni, Mukesh Mohania

**15:45-16:15 Coffee break****16:15-18:00 Session 8 Principles of DB**

Chair: Sham Navathe De Seve Theatre

**Safe Database Queries with External Functions**

Hong-Cheu Liu, Jeffrey X. Yu

**Between Well-Founded Semantics and Stable Model Semantics**

V.Phan Luong

**Lexicographically Ordered Functional Dependencies and Their Application to Temporal Relations**

Wilfred Ng

**Termination Analysis in Active Databases**

Danilo Montesi, Maria Bagnato, Cristina Dallera,

**6:45 :- Symposium dinner**

Salon Baccara, Casino de Montréal

Buses leaves from the Campus at 6:15 PM

Return on your own by Metro or taxi or take bus at 11:00PM.

**Wednesday: August 4, 1999**

8:45 - 12:30, 12:00 - 16:30 Registration

Foyer De Seve Theatre

**9:00-10:15 Session 9 Invited talk**

Chair Michel Adiba De Seve Theatre

*The Challenge of Genome Information Management: A Practical Experience* Sham Navathe (Georgia Tech)**10:15-10:45 Coffee break****10:45-12:30 Session 10 Transaction and Recovery**

Chair: Richard McClatchey De Seve Theatre

**Locking with Different Granularities for Reads and Writes in an MVM System**

P. Bodorik, D. Jutra, J. Slonim, A. Agarwal

**Transactional Coordination Agents for Composite Systems**

Heiko Schuldt, Hans-Jorg Schek, Gustavo Alonso,

**A Workflow Management Systems Architecture that Support Ad-Hoc Recoveries**

Jian Tang, Xuemin Xing

**12:30-14:00 Lunch break**

Will be provided

**14:00-15:45 Session 11 DB Architecture**

Chair: Parke Godfrey De Seve Theatre

**The Role of Meta-Objects and Self-Description in an Engineering Data Warehouse**

R. McClatchey, Z. Kovacs, F. Estrella, J-M Le Goff, L. Vargo, M. Zsenei

**Towards an Architecture for Reactive Systems Using an Active Real-Time****Database and Standardized Components**

A. Münnich, M. Birkhold, G. Färber, P. Woitschach

**On a Buzzword Extensibility" - What we have learned from the ORIENT Project?**

Nan Zhang, Theo Harder

**Scalability of an Object Descriptor Architecture OODBMS**

Kwok Yu, Byung S. Lee, Michael Olson,

**14:00-15:45 Session 11a Transaction Processing and Performance**

Chair: Isabel Cruz H415

**Site-Locking Protocol for Global Concurrency Control in Multidatabase Systems**

Kyu Woong Lee, Myung-Joon Kim, Seog Park

**Performance Evaluation of Multidimensional Array Storage Techniques in Databases**

Norbert Widmann, Peter Baumann

**The EyeDB OODBMS**

Eric Viara, Emmanuel Barillot, Guy Vaysseix

**Performance Tradeoffs in Real-Time Transaction Processing with Client****Data Caching**

Hyunchul Kang, YoungSung Kim

**Measuring the Performance of Database Object Horizontal Fragmentation Schemes**

C.I. Ezeife, Jian Zheng

**Database Modularization Design for the Construction of Flexible Information Systems**

Joao Eduardo Ferreira, Gisele Busichia

**15:45-16:15 Coffee break****16:15-18:00 Session 12 DB Engineering and User Issues**

Chair: Gösta Grahne De Seve Theatre

**An Implementation Architecture for Orthogonally Persistent Deductive Object-Oriented Database Systems**

Mohammad Ashrafuzzaman, Anthony J. Kusalik

**A User Interface for Distributed Multimedia Database Querying with Mediator Supported Refinement**

Isabel F. Cruz, Kimberly M. James

**IDEAS2000 and Adieu**

Bipin C. Desai



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IDEAS00
Speakers
Program Committee
Schedule
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Final Program

**IDEAS'00**  
**4th International Database Engineering & Applications Symposium**

September 18-20, 2000  
Yokohoma, Japan

**FINAL PROGRAM**

IDEAS'00 was hosted by Keio University and organised by the the Database Group at Concordia University and IDEAS in cooperation with IEEE. It is sponsored by Concordia, Fukui and Keio Universities, IBM, Informix Japan and IDEAS.

• **Program committee:**

Michel Adiba (Grenoble Univ.- IMAG-LSR(France), Rafi Ahmed (Oracle), Alex Biliris (AT&T Research), Joachim Biskup (Dortmund), Alok Choudhary (Northwestern University), Christine Collet (LSR-IMAG), Isabel Cruz (WPI), Bipin C. Desai (Concordia) *General Chair*, Anne Doucet(Pierre et Marie Curie Paris-6), Prabhakar Gokul (Lucent), Gösta Grahne (Concordia), Jonathan Gray (Univ. of Wollongong), William I Grosky (Wayne State Univ.), Jiawei Han (Simon Fraser Univ), Teruhisa Hochin (Fukui Univ.), *Publicity*, Yoshiharu Ishikawa (Tsukuba Univ.), Bala Iyer (IBM Santa Teresa Lab), Hasan Jamil (Mississippi State), Leonid A. Kalinichenko (Russian Acad Sci), Hiroyuki Kawano (Kyoto Univ.), Brigitte Kerhervé, (UQAM), Yasushi Kiyoki (Keio Univ.)*Program Co-chair, Local Org. Chair*, Laks V. S. (Lakshmanan) (Concordia), Georg Lausen (Freiburg), Mengchi Liu (Regina), Sanjay K Madria(Purdue), Richard McClatchey (CERN), Tim Merrett (McGill), Mukesh Mohania (Western Michigan), Sham Navathe (Georgia Tech.), Raymond Ng (UBC), Sylvia Osborn (UWO), Jaroslav Pokorny (Charles Univ.), Zbigniew W Ras (UNCC), Louiqa Raschid(Maryland), Peter Revesz (Univ. Nebraska-Lincoln), Domenico Sacca (Calabria), Fereidoon Sadri (UNCG), Timos Sellis (NTU:Athens), Nematollah Shiri (Tarbiat Modares-Iran), Divesh Srivastava (AT&T Research), Kazimierz Subieta (Polish Acad Sci.), Subbu Subramanian (IBM Almaden Res.), Kazutoshi Sumiya (Kobe Univ.), Roger Tagg (Massey-NZ), Riccardo Torlone (Universita' di Roma Tre), Motomichi Toyama (Keio Univ.), *Local arrangement*, Nectaria Tryfona (Aalborg University), Can Tuerker (ETH-Zurich), John Velissarios (Price Waterhouse), Gottfried Vossen (Univ. of Muenster), Ling Tok Wang (NUS-Singapore), Vlad Wietrzyk (Macquarie-Australia)

• **Speakers**

Opening talk: **Daniel Dias**, (IBM T. J. Watson Research Center, Yorktown Hts, NY)  
Keynote Address: **Timos K. Sellis**, (NTU, Athens, Greece.)

- **Conference secretariat:** IDEAS '00, Computer Science, Concordia University, 7141 Sherbrooke St. West Montreal, H4B 1R6, CANADA. email: [ideas@cs.concordia.ca](mailto:ideas@cs.concordia.ca), fax: +1 514 848 8652, phone: +1 514 848 3000.
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**Sunday September 17, 2000:**The excursion (9:00-17:00) to Kamakura will cost approx. 7000 yen including a lunch. There one can visit many temples, shrines and a large Buddha in a historical setting.

Time:	Monday	Tuesday	Wednesday
8:30-16:30	<b>Registration</b>		
9:15-10:45	Opening talk Daniel Dias	Keynote Speech Timos K. Sellis	Concurrency & Access
10:45-11:15	<b>Coffee break</b>		
11:15-12:45	Formalism	Dealing with Time	Multimedia Access
12:45-14:00	<b>Lunch break</b>		
14:00-16:00	Querriyng Objects	Advanced Applications	Datamarts & Warehouses
		Concerns I	Distributed Systems II
16:00-16:30	<b>Coffee break</b>		
16:30-18:00	Untangling the Web	XML & DB	DB Applications II
18:30-21:00	<b>Reception</b>		
19:00-	<b>Dinner</b>		

The presentations will be held in Multimedia room A and B, which are on B2 level of the new building in Yagami Campus of Keio University.

Monday: Sept 18, 2000

**9:15-10:45: Session 1 (Room A): Opening talk**  
Chair: Yasushi Kiyoki

**Opening Address**

Bipin C. Desai

**Business-to-Business Connectivity and Emerging Protocols for E-Biz**  
Daniel Dias, (IBM T. J. Watson Research Center, Yorktown Hts, NY)

**10:45-11:15: Coffee break**

**11:15-12:45: Session 2(Room A): Formalism**  
Chair: Daniel Dias

**A Formal Background to build Constraint Objects**

Annalisa Di Deo, Dmitri Boulanger

**Information Filtering and Personalisation in Databases using Gaussian Curve**

Guenther Specht, Thomas Kahabka

**A study on the interaction between interscheme property extraction and type conflict resolution**

Giorgio Terracina, Domenico Ursino - Presented by Sergio Greco

[12:45-14:00: Lunch break](#)[14:00-16:00: Session 3\(Room A\): Querying: Objects, Web](#)Chair: [Donilo Montesi](#)**Fuzzy Functional Dependency and its Application to Approximate Data Querying**

Rolly Intan, Masao Mukaidono

**SISQL: Schema-Independent Database Querying (on and off the web)**

Ute Masermann, Gottfried Vossen

**Querying Databases with Knowledge Domains**

Wilfred Ng

[14:00-16:00: Session 3a\(Room B\): Applications](#)Chair: [Joachim Biskup](#)**Design of RapidBase-an Active Measurement Database System**

A. Wolski, J. Kuha, T. Luukkanen, A. Pesonen

**StreamJoin: A Generic Database Approach to Support the Class of Stream-Oriented Applications**

Clara Nippel, Ralf Rantza, Bernhard Mitschang

**Data Caching for Telephony Services**

Tamra Carpenter, Robert Carter, Munir Cochinwala, Martin Eiger

[16:00-16:30: Coffee break](#)[16:130-18:00: Session 4\(Room A\): Untangling the Web](#)Chair: [Gottfried Vossen](#)**Metadata based web mining for relevance**

Jeonghee Yi, Neel Sundaresan

**KhojYantra: An Integrated MetaSearch Engine with Classification, Clustering and Ranking**

Rajeev Kumar Mishra, T. V. Prabhakar

**Fuzzy and Presentation Algebras for Web and Multimedia Data**

Elisa Bertino, Danilo Montesi, Alberto Trombetta

[18:30-20:30: Reception](#)Tuesday: [Sept 19, 2000](#)[9:15-10:45: Session 5\(Room A\): Keynote Speech](#)Chair: [Motomichi Toyama](#)**Databases supporting changes in changing worlds - the case Spatio-Temoral Database Systems**

Timos K. Sellis (NTU, Athens, Greece)

[10:45-11:15 Coffee break](#)[11:15-12:45: Session 6\(Room A\): Dealing with Time](#)Chair: [Peter Revesz](#)**Calculating Worst-Case Execution Times of Transactions in Databases for Event-Driven, Hard Real-Time Embedded Systems**

Alexander Münnich, Georg Färber

**The Vagabond Temporal OID Index: An Index Structure for OID Indexing in Temporal Object Database Systems**

Kjetil Nørheim

**Representation of Definite, Indefinite and Infinite Temporal Information**

Panagiotis Chountas, Ilias Petrounias

[12:45-14:00: Lunch break](#)[14:00-16:00 Session 7\(Room A\): Data Marts and Warehouses](#)Chair: [Jaroslav Pokorny](#)**Bulk loading a Data Warehouse built upon a UB-Tree**

Robert Fenk, Akihiko Kawakami, Volker Markl, Rudolf Bayer, Shuichi Osaki

**Efficient Maintenance of Temporal Data Warehouses**

Sandra de AMO, Mārtin Halfeld Ferrari Alves

**Application of SuperSQL Query Language for the Migration from a Relational to an Object-Oriented Database**

Shiro Udoguchi, Tadashi Iijima, Motomichi Toyama

[14:00-16:00 Session 7a\(Room B\): Applications and Concerns I](#)Chair: [Richard McClatchey](#)**Keeping Web Pages Up-To-Date With SQL:1999**

Henrik Loeser

**Architecture for the Interaction and Access on Multimedia Database Systems in the Context of Mobile Environments**

Guntram Flach, Nico G<sup>ü</sup>nther  
**Algorithms for Cartogram Animation**  
 Peter Revesz, Min Ouyang  
**Query Result Size Estimation using Trapezoidal Attribute Cardinality Map**  
 B. John Oommen, Murali Thiyagarajah  
**Measuring the Contributions of (O)RDBMS to Object-Oriented Software Development**  
 Weiping Zhang, Norbert Ritter  
**An Integration System of Web Information Sources for Mobile Users**  
 Wisut Sae-Tung, Tadashi Ohmori, Mamoru Hoshi

16:00-16:30: [Coffee break](#)  
 16:30-18:00: [Session 8\(Room A\): XML and DB](#)  
 Chair: Teruhisa Hochin

**An XML-based architecture for adaptive web hypermedia systems using a probabilistic user model**  
 Mario Cannataro, Andrea Pugliese  
**XML functionally**  
 Jaroslav Pokorny  
**Modeling and Querying XML-Data**  
 S. Flesca, S. Greco, E. Zumpano

20:00 :-: [Symposium dinner](#)

Wednesday: Sept 20, 2000

8:30 - 4:30 Registration  
 9:15-10:45: [Session 9\(Room A\): Concurrency and Access](#)  
 Chair: Bala Iyer

**Concurrency Control for B-Trees with Differential Indices**  
 Kerttu Pollari-Malmi, Jarmo Ruuth, Eijas Soisalon-Soininen  
**Speculation based nested locking protocol to increase the concurrency of nested transactions**  
 P.Krishna Reddy, Masaru Kitsuregawa  
**A Study of MBR-Based Spatial Access Methods: How Well They Perform in High-Dimensional Spaces**  
 Ratko Orlandic, Byunggu Yu

10:45-11:15: [Coffee break](#)  
 11:15-12:45: [Session 10\(Room A\): Multimedia Access](#)  
 Chair: Uwe Hohenstein

**Multimedia Data Access Based on the Sensitivity Factor**  
 Teruhisa Hochin, Keiichi Yamada, Tatsuo Tsuji  
**Enabling hypermedia videos in multimedia database systems coupled with realtime media servers**  
 Wolfgang Lindner, Henrike Berthold, Frank Binkowski, Andreas Heuer, Klaus Meyer-Wegener  
**Resiliency and Robustness of Alternative Shape-Based Image Retrieval Techniques**  
 Maytham H. Safar, Cyrus Shahabi, Chung-hao Tan

12:45-14:00: [Lunch break](#)  
 14:00-16:00 [Session 11\(Room A\): Distributed Systems](#)  
 Chair: B. John Oommen

**Open Active Services for Data-Intensive Distributed Application**  
 Christine Collet, Genoveva Vargas Solar, Helena Grazziotin-Ribeiro  
**Mediated Information Gain**  
 Joachim Biskup, David W. Embley  
**Supporting Data Migration Between Relational and Object-Oriented Databases Using a Federation Approach**  
 Uwe Hohenstein  
**Plug and Play with Query Algebras: SECONDO. A Generic DBMS Development Environment**  
 Stefan Dieker, Ralf Hartmut Güting

14:00-16:00: [Session 11a\(Room B\): Applications and Concerns II](#)  
 Chair: Guenther Specht

**Path Query Reduction and Diffusion for Distributed Semi-structured Data Retrieval**  
 Jaehyung Lee, Yon Dohn Chung, Myoung Ho Kim  
**Implementation and Performance Analysis of Incremental Equations of Nested Relations"**  
 Jixue Liu, Millist W. Vincent, and Mukesh Mohania  
**Dynamic Performance Optimization Mechanism for Parallel Object-Oriented Database Programming Languages**  
 Ken'ichirou Kimura, Hirofumi Amano, Akifumi Makinouchi  
**A Cost Function for Uniformly Partitioned UB-Trees**  
 Volker Markl, Rudolf Bayer  
**Time is the Shadow of Reactive Behaviour**  
 Mikael Berdtsson, Jorgen Hansson  
**Materializing a Set of Views: Dynamic Strategies and Performance Evaluation**  
 Zohra Bellahsene, Philippe Marot Presented by Genoveva Vargas Solar

16:00-16:30: [Coffee break and Farewell](#)

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**IDEAS'01**  
**5th International Database Engineering & Applications Symposium**

July 18, 2001  
Grenoble, France

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**Monday: July 16, 2001**

8:30 - 5:00 Registration

9:00-10:30: Session 1 Opening and Invited talk I

Chair: Michel Adiba

*Opening Address*

**Bipin C. DESAI**

*The Xyleme Project, from research to industry*

**Sophie Cluet, INRIA, FR**

10:30-11:00: Pause

11:00-12:30: Session 2: Query

Chair: S. Cluet

*Query Scheduling in Multiquery Optimization*

**Amit Gupta, S. Sudarshan, V. Sundar**

*Exploiting Upper and Lower Bounds In Top-Down Query Optimization*

**Leonard Shapiro, David Maier, Paul Benninghoff, Keith Billings, Yubo Fan, Kavita Hatwal, Quan Wang, Yu Zhang, Hsiao-min Wu, Bennet Vance,**

*Web document searching using enhanced hyperlink semantics based on XML*

**Iraklis Varlamis, Michalis Vazirgiannis**

12:30-14:00: Lunch break

14:00-16:00: Session 3: Physical Data Structures

Chair:

*Design and Implementation of Bitmap Indices for Scientific Data*

**Kurt Stockinger**

*Implementing KDB-Trees to Support High-Dimensional Data*

**Ratko Orlandic, Byunggu Yu**

*Qualitative Representations in Large Spatial Databases*

**Baher A. El-Geresy, Alia I. Abdelmoty**

*Prefix Trees: New Efficient Data Structures for Matching Strings of Different Lengths*

**Nasser Yazdani, Paul S. Min**

16:00-16:30: Coffee break

16:30-18:00: Session 4a Schemas and Version

Chair:

*Generation of external schemas in ODMG databases*

**Manuel Torres, José Samos**

*Dynamic Systems Specification using Versions and Time*

**Mirella Moura Moro, Silvia Maria Saggiorato, Nina Edelweiss, Clesio Saraiva dos Santos**

16:30-18:00: Session 4b: Short Papers I

Chair: Dan Chamberlin

*Optimization of SchemaSQL Queries*

**Keir B. Davis, Fereidoon Sadri** --- NO SHOW--- paper was not presented!

*Static Analysis of Queries as a Tool for Static Optimization*

**Jacek Plodzien, Kazimierz Subieta**

*XPathLog: A Declarative, Native XML Data Manipulation Language*

**Wolfgang May**

*Metadata Management for Data Warehousing: Between Vision and Reality*

**Anca Vaduva, Klaus R. Dittrich** --- NO SHOW---paper was not presented!

19:00-21:00?: Reception

**Tuesday: July 17, 2001**

8:30 - 5:00 Registration

9:00-10:00: Session 5 Invited Talk II

Chair: Bipin C. Desai

*Query Languages and XML*

**Don Chamberlin, IBM Almaden, San Jose, US**

10:00-10:30 Coffee break

10:30-12:30: Session 6: OLAP

Chair: Hans-Jörg Schek

*Novel Algorithms for Computing Medians and Other Quantiles of Disk-Resident Data*

**Lixin Fu, Sanguthevar Rajasekara**

*Exploitation of Pre-sortedness for Sorting in Query Processing: The TempTris-Algorithm for UB-Trees*

**Martin Zirkel, Volker Markl, Rudolf Bayer**

*Interactive ROLAP on Large Datasets: A Case Study with UB-Trees*

**Frank Ramsak, Volker Markl, Robert Fenk, Rudolf Bayer, Thomas Ruf**

*Improving the Processing of Decision Support Queries: The Case for a DSS Optimizer*

**Holger Schwarz, Ralf Wagner, Bernhard Mitschang**

12:30-14:00: Lunch break



**14:00-16:00 Session 7a: Federated Data Sources****Chair:***Version Propagation in Federated Database Systems***Martin Schönhoff, Markus Strässler, Klaus. R. Dittrich***Semantic Integration of XML Heterogeneous Data Sources***Chantal Reynaud, Jean-Pierre Siro, Dan Vodislav***Reducing Inconsistency in Integrating Data From Different Sources***Sergio Luján-Mora, Manuel Palomar***A Data Preparation Framework based on a Multidatabase Language***Kai-Uwe Sattler, Eike Schallehn****14:00-16:00 Session 7b: Short Papers II****Chair: J. Pokorny***A UML-based Metamodeling Architecture for Database Design***Marie-Noëlle Terrasse, Marinette Savonnet, George Becker***An Integrated Graphical User Interface for High Performance Distributed Computing***Xiaohui Shen, Wei-keng Liao, Alok Choudhary** --- NO SHOW---paper was not presented!*Virtual Integration of Temporal and Conflicting Information***Panagiotis Chountas, Ilias Petrounias***Modeling and Management of Spatio-Temporal Objects within Temporal GIS Application Framework***Dragan Stojanovic, Slobodanka Djordjevic-Kajan, Zoran Stojanovic** --- NO SHOW---paper was not presented!*Integrity Constraint Management for Design Object Versions in a Concurrent Engineering Design Environment***Jeevani Samantha Goonetillake, Tom Carnduff, Alex Gray****16:00-16:30: Coffee break****16:30-18:00: Session 8: Distributed Systems****Chair:***Tradeoff between Client and Server Transaction Validation in Mobile Environment***Amitabha Das, Koh Yen Kai***Cryptography and Relational Database Management Systems***Jingmin He, Min Wang***Steiner-Optimal Data Replication in Tree Networks with Storage Costs***Konstantinos Kalpakis, Koustuv Dasgupta, Ouri Wolfson****19:30 :- Banquet****Wednesday: July 18, 2001****8:30 - 4:00 Registration****9:00-10:00: Session 9: Invited Talk III****Chair: Christine Collet***Evolution of Database Technology: Hyperdatabases***Hans-Jörg Schek, ETHZ, Zurich, CH****10:00-10:30: Coffee break****10:30-12:30: Session 10: Data Warehouse & Mining****Chair:***Towards an Architecture for Real-Time Decision Support Systems: Challenges and Solutions***Kemal A. Delic, Laurent Douillet, Umeshwar Dayal***Experimental Evaluation of a New Distributed Partitioning Technique for Data Warehouses***Jorge Bernardino, Henrique Madeira***Mining Free Itemsets under Constraints***Jean-François Boulicaut, Baptiste Jeudy***A framework for understanding existing databases***Stéphane Lopes, Jean-Marc Petit, Lotfi Lakhal****12:30-14:00: Lunch break****14:00-16:00 Session 11: Multimedia - Farewell****Chair:***A study on Content-Based Classification and Retrieval of Audio Database***Mingchun Liu, Chunru Wan***Similarity-Based Operators and Query Optimization for Multimedia Database Systems***Solomon Atnafu, Lionel Brunie, Harald Kosch***An Adaptive and Efficient Clustering-based Approach for Content Based Retrieval in Image Databases***Renato O. Stehling, Mario A. Nascimento, Alexandre X. Falcao***Closing remarks***Michel Adiba***CFP IDEAS'02***Bipin C. Desai, Mario A. Nascimento****16:00-16:30: Coffee break****Addresses**

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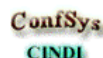
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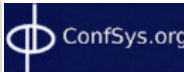

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<p><b>DAY 1 - July 17, 2002</b>  <b>08:15 - 16:00: Registration</b>  <b>08:40 - 09:00: OPENING Chair: Tamer Özsu</b>  <b>09:00 - 10:00: INVITED TALK I Chair: Davood Rafiei</b>  <i>ToX: The Toronto XML Server</i>  <b>Alberto Mendelzon</b>, Univ. of Toronto.  <b>10:00 - 10:20: Coffee break</b>  <b>10:20 - 12:00 : SESSION I (DBMS Implementation Issues) Chair: Jorge Bernadino</b>  <i>On Implicate Discovery and Query Optimization</i>  <b>Kristofer Vorwerk and G. N. Paulley</b>  <i>Interval Processing with the UB-Tree</i>  <b>Robert Fenk, Volker Markl and Rudolf Bayer</b>  <i>Graph Partition Based Multi-Way Spatial Joins</i>  <b>Xuemin Lin, Hai-Xin Lu and Qing Zhang</b>  <i>View Merging in the Context of View Selection</i>  <b>Changqing Chen, Yucai Feng and Jianlin Feng</b>  <b>12:00 - 13:30: Freetime, Lunch</b>  <b>13:30 - 15:10: SESSION II (Mobile Data) Chair: Joerg Sander</b>  <i>Nearest Neighbor and Reverse Nearest Neighbor Queries for Moving Objects</i>  <b>Rimantas Benetis, Christian S. Jensen, Gytis Karciauskas and Simonas Saltenis</b>  <i>Continual Neighborhood Tracking for Moving Objects Using Adaptive Distances</i>  <b>Yoshiharu Ishikawa, Hiroyuki Kitagawa and Tooru Kawashima</b>  <i>Energy-Efficient Data Broadcasting in Mobile Ad-Hoc Networks</i>  <b>Le Gruenwald, Muhammad Javed and Meng Gu</b>  <i>A Location Dependent Benchmark with Mobility Behavior</i>  <b>Ayse Yasemin Seydim and Margaret H. Dunham</b>  <b>15:10 - 15:30: Coffee break</b>  <b>15:30 - 17:10: SESSION III (XML &amp; OODB) Chair: Glenn Paulley</b>  <i>XGL: a graphical query language for XML</i> This paper was presented by Dominico Ursino!  <b>Sergio Flesca, Filippo Furfaro and Sergio Greco</b>  <i>Parallel Processing XML Documents</i> This paper was not presented!  <b>Kevin J. L? Yuanling Zhu and Wenjun Sun</b>  <i>Yet Another Query Algebra For XML Data</i>  <b>Carlo Sartiani and Antonio Albano</b>  <i>Distributing CORBA views from an OODBMS</i> This paper was not presented due to sickness.  <b>Eric Viara, Guy Vaysseix and Emmanuel Barillot</b>  <b>17:10 - 17:30: Free time</b>  <b>17:30 - 20:00: RECEPTION</b></p>		Author/User FAQ Author Help Grace Period Embedding Fonts
<p><b>DAY 2 - July 18, 2002</b>  <b>08:45 - 12:00: Registration</b>  <b>09:00 - 10:00: INVITED TALK II Chair: Osmar Zaiane</b>  <i>Self-Tuning Database Systems</i>  <b>Surajit Chaudhuri</b> Microsoft Research  <b>10:00 - 10:20: Coffee break</b>  <b>10:20 - 12:00: SESSION IV (Applications I) Chair: Domenico Ursino</b>  <i>Completing CAD Data Queries for Visualization</i>  <b>Milena Gateva Koparanova and Tore Risch</b>  <i>An index structure for improving nearest closest pairs and related join queries in spatial databases</i> This paper was not presented!  <b>Congjun Yang and King-Ip Lin</b>  <i>Management of Multiply Represented Geographic Entities</i>  <b>Anders Friis-Christensen, David Skogan, C. S. Jensen, Gerhard Skagestein and N. Tryfona</b>  <i>Integrating HTML Tables Using Semantic Hierarchies And Meta-Data Sets</i>  <b>Seung-Jin Lim, Yiu-Kai Ng and Xiaochun Yang</b>  <b>12:00 - 13:30: Freetime, LUNCH</b>  <b>13:30 - 15:10: SESSION V (Modelling) Chair: Simonas Saltenis</b>  <i>YAM2 (Yet Another Multidimensional Model): An Extension of UML</i>  <b>Alberto Abelló, José Samos, and Fèlix Saltor</b>  <i>Authorization Model for Summary Schemas Model</i>  <b>Sudsangan Ngamsuriyaroj, Ali R. Hurson and Thomas F. Keefe</b>  <i>Implementing Federated Databases Systems by Compiling SchemaSQL</i>  <b>Francois Barbancon and Daniel P. Miranker</b>  <i>A multi-agent model for handling e-commerce activities</i>  <b>Domenico Rosaci, Giuseppe M.L. Sarn?and Domenico Ursino</b>  <b>15:10 - 15:30: Coffee break</b>  <b>15:30 - 17:10: SESSION VI (Data Warehouse/Mining) Chair: Le Gruenwald</b>  <i>Clustering Spatial Data in the Presence of Obstacles: a Density-Based Approach</i>  <b>Osmar R. Zaiane and Chi-Hoon Lee</b>  <i>Consistency in Data Warehouse Dimensions</i>  <b>Carolin Letz, Eric Tobias Henn and Gottfried Vossen</b>  <i>DWS-AQA: A Cost Effective Approach for Very Large Data Warehouses</i>  <b>Jorge Bernardino, Pedro Furtado and Henrique Madeira</b></p>		Sample Copyright Form Latex article.cls ACM CCS code Paper Review: tex Paper Review: pdf Paper Final: tex Paper Final: A4 Paper Final: US Ltr
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*Fast Filter-and-Refine Algorithms for Subsequence Selection*

**Beng Chin Ooi, Hwee Hwa Pang, Hao Wang, Limsoon Wong and Cui Yu**

17:10 - 17:45: Free time

17:45 - 20:30: DINNER

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**Day 3 - July 19, 2002**

08:45 - 11:00: Registration

09:00 - 10:00: INVITED TALK III Chair: Mario Nascimento

*Stream Data Management: Research Directions and Opportunities*

Nick Koudas, AT&T Research

10:00 - 10:20: Coffee break

10:20 - 12:00: SESSION VII(Applications II) Chair: Nematollaah Shiri

*Scalable QoS-Aware Disk-Scheduling*

Walid G. Aref, Khaled El-Bassouini, Ibrahim Kamel and Mohamed F. Mokbel

*Using the F2 OODBMS to Support Incremental Knowledge Acquisition*

Lina Al-Jadir and Ghassan Beydoun

*Methodology For Creating a Sample Subset of Dynamic Taxonomy to*

*Use in Navigating Medical Text Databases*

Dennis Wollersheim and Wenny Rahayu

*Rules Termination Analysis investigating the interaction between transactions and triggers*

Elisa Bertino, Danilo Montesi, Maria Bagnato and Peter Dearnley

12:00 - 12:15: CLOSING and IDEAS'03 dates, location Bipin C. Desai

12:30 - 13:30: Farewell lunch

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IDEAS
IDEAS03
Final Program

## IDEAS 2003 Program

	16 July 2003	17 July 2003	18 July 2003
<b>9:00-9:30am</b>	Registration	Keynote 1	Keynote 2
<b>9:30-10:00am</b>	Opening Address	Limsoon Wong	Laks V.S. Lakshmanan
<b>10:00-10:30am</b>	<b>Coffee Break</b>	<b>Coffee Break</b>	<b>Coffee Break</b>
<b>10:30-12:00nn</b>	Session 1	Session 4	Session 7
<b>12:00-1:30pm</b>	<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>
<b>1:30-3:00pm</b>	Session 2	Session 5	Session 8
<b>3:00-3:30pm</b>	<b>Coffee Break</b>	<b>Coffee Break</b>	<b>Coffee Break</b>
<b>3:30-5:00pm</b>	Session 3    Session 9	Session 6    Session 10	Session 11    Session 12
<b>Evening</b>	<b>6:00-7:00pm Reception</b>	<b>7:00-9:00pm Banquet</b>	

### 16 July 2003, Wednesday

**9:00am-9:30am Registration**

**9:30am-10:00am Opening Address by Wilfred Ng, Bipin Desai**

**Venue: Lecture Theater B**

**10:00am-10:30am Coffee Break**

**10:30am-12:00noon Session 1: Data and Database Modelling**

**Venue: Lecture Theater B**

**Session Chair: Qing Li**

A Model for Schema Integration in Heterogeneous Databases  
Avigdor Gal, Alberto Trombetta, Ateret Anaby-Tavor, Danilo Montes  
Israel Institute of Technology

[A Hybrid Model for Data Synchronism in Data Warehouse Projects](#)

Isabel Italiano, Joao Eduardo Ferreira

Universidade de Sao Paulo

A Multi-resolution Block Storage Model for Database Design

Jingren Zhou, Kenneth A. Ross

Columbia University

**12:00noon-1:30pm Lunch**

**Venue: G/F Restaurant (China Garden)**

**1:30pm-3:00pm Session 2: Data Mining I**

**Venue: Lecture Theater B**

**Session Chair: Hong Va Leong**

Bitmap Techniques for Optimizing Decision Support Queries and Association Rule Algorithms

Xiaohua Hu, T.Y.Lin, Eric Louie

Drexel University

Modeling and Efficient Mining of Intentional Knowledge of Outliers

Zhixiang Chen, Jian Tang, Ada Wai-Chee Fu

University of Texas-Pan American

Algorithms for Balancing Privacy and Knowledge Discovery in Association Rule Mining

Stanley R. M. Oliveira, Osmar R. Zaiane

University of Alberta, Canada

**3:00pm-3:30pm Coffee Break**

**3:30pm-5:00pm Session 3: XML Data Management**

**Venue: Lecture Theater B**

**Session Chair: Qing Li**

Extending XML-RL With Update

Guoren Wang, Mengchi Liu, Li Lu

Carleton University

Dynamic Tuning of XML Storage Schema in VXMLR

Shuigeng Zhou, Zhengchuan Xu, Zhimao Guo, Aoying Zhou

Fudan University

Query Translation from XSLT to SQL

Jixue Liu, Millist Vincent

University of South Australia

**3:30pm-5:00pm Session 9: Data Mining II**

**Venue: RM1402**

**Session Chair: Hong Va Leong**

[Frequent Itemsets Mining for Database AutoAdministration](#)

Kamel Aouiche, Jerome Darmont, Le Gruenwald

University of Lyon 2

[Efficiently Mining Maximal Frequent Sets for Discovering Association Rules](#)

Srikumar Krishnamoorthy, Bharat Bhasker

Indian Institute of Management

Incremental Mining of Frequent Patterns Without Candidate Generation or Support Constraint

William Cheung, Osmar R. Zaiane

University of Alberta

Linear and Sublinear Time Algorithms for Mining Frequent Traversal Path Patterns From Very Large Web Logs

Zhixiang Chen, Richard Fowler, Ada Wai-Chee Fu, Chunyue Wang

The University of Texas - Pan American

Identification of Clusters in the Web Graph Based on Link Topology

Xiaodi Huang, Wei Lai

Swinburne University of Technology

**7:00pm-8:00pm: Receptions**

**Venue: University Center, UC Bistro**

### 17 July 2003, Thursday

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**8:30am-9:00am Registration**

**9:00am-10:00am Keynote Speech I by Limsoon Wong**

**Data Mining of Gene Expression Profiles for the Diagnosis and Understanding of Diseases**

**Venue: Lecture Theater B**

**Session Chair: Wilfred Ng**

**10:00am-10:30am Coffee Break**

**10:30am-12:00noon Session 4: Advanced Database Techniques I**

**Venue: Lecture Theater B**

**Session Chair: Hong Va Leong**

A Stream Segregation Algorithm for Polyphonic Music Databases

Wai Man Szeto, Man Hon Wong

The Chinese University of Hong Kong

Efficient Subsequence Matching for Sequences Databases under Time Warping

Siu Fung Wong, Man Hon Wong

The Chinese University of Hong Kong

[Neighborhood Signatures for Searching P2P Networks](#)

Mei Li, Wang-Chien Lee, Anand Sivasubramaniam

Pennsylvania State University

**12:00noon-1:30pm Lunch**

**Venue: G/F Restaurant (China Garden)**

**1:30pm-3:00pm Session 5: Advanced Database Techniques II**

**Venue: Lecture Theater B**

**Session Chair: Qing Li**

[Pushing Quality of Service Information and Requirements into Global Query Optimization](#)

Haiwei Ye, Brigitte Kerherv, Gregor Bochmann, Vincent Oria

University of Montreal

Dynamic Data Management Strategies for Location Based Services in Mobile Environments

Shiow-yang Wu, Kun-Ta Wu

National Dong Hwa University

[Implementing Views for Light-Weight Web Ontologies](#)

Raphael Volz, Daniel Oberle, Rudi Studer

University of Karlsruhe (TH)

**3:00pm-3:30pm Coffee Break**

**3:30pm-5:00pm Session 6: Imprecise and Temporal Databases**

**Venue: Lecture Theater B**

**Session Chair: Hong Va Leong**

Specification and Management of QoS in Imprecise Real-Time Databases

Mehdi Amirjoo, Jorgen Hansson, Sang H. Son

Linköpings Universitet

Preferred Repairs for Inconsistent Databases

Sergio Greco, Cristina Sirangelo, Irina Trubitsyna, Ester Zumpano

Universit' a della Calabria

V2: A Database Approach to Temporal Document Management

Kjetil N  rvag

Norwegian University of Science and Technology

**3:30pm-5:00pm Session 10: Querying XML Data and Web Issues**

**Venue: RM1402**

**Session Chair: Qing Li**

[Evaluating Nested Queries on XML Data](#)

Carlo Sartiani

Universit' di Pisa

Effective Schema-Based XML Query Optimization Techniques

Guoren Wang, Mengchi Liu, Jeffrey Xu Yu, Bing Sun, Hongjun Lu, Ge Yu, Jianhua Lv

Carleton University

Querying XML data by the Nested Relational Sequence Database System

Ho Lam Lau, Wilfred Ng

Hong Kong University of Science and Technology

E-Learning as a Web Service

Gottfried Vossen, Peter Westerkamp

University of Muenster

Refining Web Authorative Resources by frequent Structures

Haofeng Zhou, Yubo Lou, Qingqing Yuan, Wilfred Ng, Wei Wang, Baile Shi

Fudan University

**7:00pm-9:00pm: Conference Banquet**

**Venue: Merto City Phase II Level (Chilli N Spice**

**Picking up location: Entrance Piazza at 6:45pm**

**18 July 2003, Friday**

**8:30am-9:00am Registration**

**9:00am-10:00am Keynote Speech II by Laks V.S. Lakshmanan**

**Is the (Semantic) Web a Database?**

**Venue: Lecture Theater B**

**Session Chair: Bipin Desai**

**10:00am-10:30am Coffee Break**

**10:30am-12:00noon Session 7: Database Applications I**

**Venue: Lecture Theater B**

**Session Chair: Wilfred Ng**

Persistent Applications via Automatic Recovery

Roger Barga, David Lomet, Stelios Pappas, Haifeng Yu, Sirish Chandrasekaran

Microsoft Research, Microsoft Corporation

Implementation Issues of a Deterministic Transformation System for Structured Document Query Optimization

Dunren Che

Southern Illinois University

Learning Objects as a Uniform Foundation for E-Learning Platforms

Gottfried Vossen, Peter Jaeschke

University of Muenster

**12:00noon-1:30pm Lunch****Venue: G/F Restaurant (China Garden)****1:30pm-3:00pm Session 8: Database Applications II****Venue: Lecture Theater B****Session Chair: Jorge Bernardino**

Applying Bulk Insertion Techniques for Dynamic Reverse Nearest Neighbor Problems

King Ip Lin, Michael Nolen, Congjun Yang

The University of Memphis

Enhancements on Local Outlier Detection

Anny Lai-mei Chiu, Ada Wai-chee Fu

The Chinese University of Hong Kong

Automated EJB Client Code Generation Using Database Query Rewriting

Jianguo Lu, John Mylopoulos

University of Windsor

**3:00pm-3:30pm Coffee Break****3:30pm-5:00pm Session 11: Database Systems and Concerns****Venue: Lecture Theater B****Session Chair: Jorge Bernardino**[Expressing Database Transactions as Atomic-Operations](#)

Andrew G. Fry

RMIT University

Identification of Malicious Transactions in Database Systems

Yi Hu, Brajendra Panda

University of Arkansas

Database Damage Assessment for Recovery from Information Attacks

Brajendra Panda, Jing Zhou

University of Arkansas

A Framework for Customisable Schema Evolution in Object-Oriented Databases

Awais Rashid

Lancaster University

High Availability Solutions for Transactional Database Systems

Stella Budrean, Yanhong Li, Bipin C. Desai

Concordia University

**3:30pm-5:00pm Session 12: Database Applications III****Venue: RM1402****Session Chair: Hong Va Leong**

An Empirical Study of Commutativity in Application Code

Paul Wu, Alan Fekete

University of Sydney

Fast Accurate Summary Warehouses with Distributed Summaries

Furtado Pedro, Joao Pedro Costa

Universidade de Coimbra

A Medium Complexity Discrete Model for Uncertain Spatial Data

Erlend TËssebø, Mads Nygard

Norwegian University of Science and Technology

A CBIR-Framework using both Syntactical and Semantical Information for Image Description

Laurent Besson, Arnaud Da Costa, Eric Leclercq, Marie-Noelle Terrasse

Universit e de Bourgogne

[Operations on Metamodels in the Context of a UML-Based Metamodeling Architecture](#)

Marie-Noelle Terrasse, George Becker, Marinette Savonnet, Eric Leclercq

Universit e de Bourgogne

**5:00pm: Closing of IDEAS 2003****Poster Papers**

Issues in Object-Based Notification

Paul Kim, Dorothy Curtis

Massachusetts Institute of Technology

A Portable Interoperation Module for Workflow System

Wooseok Jun, Dongsoo Han

Information and Communication University

QUEROM : An Object-Oriented Representation and Reasoning Model to Rewriting Queries using Views

Abdelhak Seriai

Ecole Nationale Sup rieure des Mines de Douai

Design and Implementation Issues of Bio-AXS: An Object-oriented Framework for Integrating Biological Data and Applications

Luiz Fernando Bessa Seibel, Melissa Lemos, S rgio Lifschitz

Pontificia Universidade Catolica do Rio de Janeiro

CONFSYS: The CINDI Conference Support System

Zhengwei Gu, Xin Jin, Bipin C. Desai

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**IDEAS'04**  
**International Database Engineering & Applications Symposium**

July 25-27, 2005  
Concordia University, Montreal, Canada

**IDEAS'04-DH: Workshop On Medical Information Systems**  
Theme: The Digital Hospital  
**Program**  
September 1-3, 2004, Beijing CHINA



IDEAS'04-DH is the first IDEAS workshop on Medical Information Systems. The theme of this gathering is Digital Hospital. The workshop is sponsored by IDEAS(Concordia University), The Ministry of Health of China, Chinese Hospital Information Management Association, Shenzhen Center for Health Statistics & Information.

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Author/User FAQ  
Author Help  
Grace Period  
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Date: 2004-08-31 -- 2004-09-3		
08:00---17:00	<b>Registration ( Continues daily)</b>	
	<b>Location:</b> lobby, Fragrant Hill Hotel	
Date: 2004-09-01		
09:00---10:30	<b>Session 1 Opening of IDEAS'04-DH</b>	Chair: Li, Baoluo
	<b>Welcome address Bipin C. DESAI</b>	
	<b>The plan and implementation of the National Health Information System in China</b> Keqin, Rao, Prof. Director, Center for Health Statistics & Information, The Ministry of Health, China	
	<b>Advancing the Electronic Health Record in Canada: Why? How? Possible Lessons for China</b> Tom Noseworthy, Professor and Head Dept. Community Health Sciences University of Calgary, Calgary Canada	
10:30---11:00	<b>Coffee/tea break</b>	
11:00---12:30	<b>Session 2 Diagnostic Decision Support System</b>	Chair:Keqin, Rao
	<b>Policy Driven Mobile Agents for Ubiquitous Medical Diagnosis</b> Ying Zou (UK), Robert Istepanian, Steve Bain	
	<b>Development of a Clinical Datawarehouse</b> Panagiotis Chountas (UK), Vassilis Kodogiannis	
	<b>A Mediation Framework for Web Services in a Distributed Healthcare Information System</b> Michael Mrissa (France) , Chirine Ghedira (France), Djamal Benslimane (France), Zakaria Maamar (United Arab Emirates)	
12:30---14:00	<b>Lunch Break</b>	
14:00---16:30	<b>Session 3 Clinical Decision Support</b>	Chair: Baoluo, Li
	<b>A Framework for a Clinical Reasoning Knowledge Warehouse</b> Pedersen Klaus Vilstrup (Denmark), Niels Boye(Denmark)	
	<b>An Application of Classification Analysis for Skewed Class Distribution in Therapeutic Drug Monitoring ? The Case of Vancomycin</b> Jian-Xun Chen (ROC), Tsang-Hsiang Cheng, Agnes L.F. Chan, Hue-Yu Wang	
	<b>Knowledge Representation for Traditional Chinese Acupuncture Points using the UMLS and a Terminology Model</b> Xinxin Zhu(USA), K.P. Lee(USA), James Cimino(USA)	
	<b>The Mission and Barriers of EHR in China</b> Baoluo, Li Prof. Senior Engineer, CIO Peking Union Medical College Hospital, China's Academy of Medical Science, Chairman of the Chinese Hospital Information Management Association	
	<b>Integration of the Regional Public Health Resources and Establishment of the Digital Hospital</b> Dr. Fulin Zhang, Shenzhen Medical Information Center, Shenzhen, China	
16:45---17:45	<b>Session 4 Roundtable Discussions</b>	Chair: Bipin C. Desai
	<b>Information Integration for health care and the next decade</b>	



Date: 2004-09-02		
09:00---10:30	<b>Session 5 Keynote Talk</b>	Chair: Yusheng He
	<b>The past, present and future of Electronic Health Record in the Asia-Pacific Area</b> Yu-Chuan (Jack) Li, M.D., Ph.D. Professor, President, Taiwan Assoc of Medical Informatics, Professor and Chief, Graduate Institute of Med InfoVice Superintendent, Wan Fang Hospital	
	<b>Instant Information access in the Digital Hospital</b> Dr. Craig Feied, Director of the Institute for Medical Informatics, Director of the National Center for Emergency Medicine Informatics, Founding Director of the ER One program	
10:30---11:00	<b>Coffee/tea break</b>	
11:00---12:30	<b>Session 6 Health Care Information</b>	Chair: Tom Noseworthy
	<b>Rethinking of medical information retrieval and access</b> Nong Chen (The Netherlands<>), Ajantha Dahanayake	
	<b>Genericity in an Epidemiological Network for Nephrology and Rheumatology</b> Michel Simonet (France), Michel Simonet(France), Ana Simonet(France), Haijin Yu(Chnia.), Didier Guillon(France)	
	<b>Image Retrieval and Registration in medical domain: techniques, issues and promising directions</b> Mahmudur Rahman (Canada), Tongyuan Wang(Canada), Bipin C. Desai(Canada)	
12:30---14:00	<b>Lunch Break</b>	
14:00---16:30	<b>Session 7 E-Disease Management</b>	Chair: Dixie Baker
	<b>The PARADIGMA Project: the Architecture and the Navigator</b> Antonio Dileva (Italy)	
	<b>Managing Pan-European Mammography Data with a Service-Oriented Architecture</b> Richard McClatchey (UK), Salvator Roberto Amendolia (Switzerland), Florida Estrella(Switzerland), Dmitry Rogulin (Switzerland), Tony Solomonides(UK)	
16:30---17:30	<b>Coffee/tea break</b>	
	<b>Integrating Remote Health Actors to an E-Health Intuitive Cooperation Platform development</b> Xavier Urtubey (Argentina), Pablo Felgaer (Argentina), Fernando Umimsky(Argentina)	
	<b>The Chinese National Health Information Framework and Standardization</b> Yongyang Xu Professor, The Fourth Medical University of PLA	
	<b>The Scientific Evaluation of PACS</b> Jianning Sun, Professor, The Institute of Acoustics of CAS	
	<b>Hospital Information System: Promises, Reality, and Future</b> Shaohua Tan , Professor , National Laboratory on Machine Perception of China School of Electronics Engineering and Computer Science, Peking University	
Date: 2004-09-03		
09:00---10:30	<b>Session 8 Invited Paper</b>	Chair: Bipin C. Desai
	<b>Key Issues in Public health information Network</b> Dr. Callum Bir	
	<b>East Meets West to Cure Healthcare Ills Using Information Technology</b> Dixie B. Baker Science Applications International Corporation (USA,)	
10:30---11:00	<b>Coffee/tea break</b>	
11:00---12:30	<b>Electronic Health Information Exchange</b>	Chair:Yongyong Xu
	<b>The Integrated Digital Hospital - Challenges for data integration, mobility, standardization and information exchange</b> Ivan Harrow (Ireland), Ross Burger	
	<b>Supporting Information Management for Regional Health Information Systems by Models with Communication Path Analysis</b> Alfred Winter (Germany), Birgit Brigl, Ulrike Mueller, Alexander Struebing, Thomas Wendt, Oliver Heller	
	<b>Ubiquitous Mobility in Clinical Healthcare</b> Chris Pavlovski (Australia), HeeSam Kim(Korea), David Wood(USA)	
12:30---14:00	<b>Lunch Break</b>	

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e-mail: "Diana" <zimeng1113@newhealth.com.cn>

**The site of the workshop:**

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Beijing, China

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URL: ENGLISH: <http://www.newhealth.com.cn/xsfd/xsfd.htm>

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For help with room reservation please send an email to:

[Diana.ZIMENG1113@NEWHEALTH.COM.CN](mailto:Diana.ZIMENG1113@NEWHEALTH.COM.CN)

**General Chair,**

Dr. Bipin C. Desai, IDEAS, Concordia University, Canada;

**Local Chair,**

Rao, Keqin, Prof. Director, Center for Health Statistics & Information, The Ministry of Health, China  
Li, Baoluo, Prof. Senior Engineer, CIO Peking Union Medical College Hospital, China's Academy of Medical Science, Chairman of  
the Chinese Hospital Information Management Association  
Dr. Fulin Zhang, Shenzhen Center for Medical Information, Shenzhen, China  
**Program Committee:**

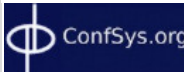

Chen, Yude, Prof. Medical Division, Beijing University, Chief Editor, Journal of China's Preventive Medicine  
Courreges, Fabien, Kingston University, UK  
Fang, Jiqian, Prof. Medical Division of Zhongshan Medical University  
Gao, Yanjie, Deputy Director, Center for Health Statistics Information, The Ministry of Health, China  
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Kong, Lingren, Prof. Medical Faculty of Jianan University  
Lassila, Kathy Prof. Colorado State, USA  
Li, Baoluo, Prof. Senior Engineer, CIO Peking Union Medical College Hospital, China's Academy of Medical Science  
Li, Yimin, Director, Center for Health Statistics & Information, Guangdong Province  
Li, Youping, Prof. Medical Division of Sichuan University  
Nagle, Lynn M. Dr. Senior Vice President, Mount Sinai Hospital (Toronto, Canada)  
Neame, Roddy Dr. Vice-Chancellor, International University of the Health Sciences(UK)  
Rao, Keqin, Prof. Director, Center for Health Statistics & Information, The Ministry of Health, China  
Xu, Tianhe, Prof., Executive Deputy Chief Editor, Journal of China's Hospital Statistics  
Zhang, Fulin, Director, Center for Health Statistics & Information, Shenzhen Deputy President, Association of Health Information  
Network of Guangdong Province

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<table border="1"> <tr><td>IDEAS</td></tr> <tr><td>IDEAS04</td></tr> <tr><td>Final Program</td></tr> </table>	IDEAS	IDEAS04	Final Program	<p><b>IDEAS'04</b>  <b>8th International Database Engineering &amp; Applications Symposium</b>  <i>July 7-9, 2004 Coimbra, Portugal</i>  <b>Final Program with No SHOWS</b></p>	<p>Guide</p> <ul style="list-style-type: none"> <li><a href="#">Security Certificate</a></li> <li><a href="#">Submission</a></li> <li><a href="#">Author/User FAQ</a></li> <li><a href="#">Author Help</a></li> <li><a href="#">Grace Period</a></li> <li><a href="#">Embedding Fonts</a></li> </ul> <p>Sample</p> <ul style="list-style-type: none"> <li><a href="#">Copyright Form</a></li> <li><a href="#">Latex article.cls</a></li> <li><a href="#">ACM CCS code</a></li> <li><a href="#">Paper Review: tex</a></li> <li><a href="#">Paper Review: pdf</a></li> <li><a href="#">Paper Final: tex</a></li> <li><a href="#">Paper Final: A4</a></li> <li><a href="#">Paper Final: US Ltr</a></li> </ul> <p>Sponsors</p> <div style="text-align: center;">    </div>
IDEAS					
IDEAS04					
Final Program					
<p><b>July 7, 2004</b>  Registration Opening Session: Chair: Bipin Desai</p> <p>INVITED SPEAKER: Chair: Jorge Bernardino  A Trigger-Based Approach for Communication Personalization  Elisa Bertino, Purdue University,</p> <p>Coffee break</p> <p>SESSION I (DATABASE APPLICATIONS I) Chair: Isabel Cruz</p> <p>QUAY: A Data Stream Processing System using Chunking  Ken Lee, Hong Va Leong, Antonio Si  The Hong Kong Polytechnic University</p> <p>Adaptive Data Broadcasting In Asymmetric Communication Environments  Wei Wang, Chinya Ravishankar  University of California, Riverside</p> <p>Energy-Aware Object Retrieval Protocol from Parallel Broadcast  Ali Hurson, Neil Orchowski  Penn State University</p> <p>LUNCH</p> <p>SESSION II (DATA MINING AND KNOWLEDGE DISCOVERY)  Chair: Torben Bach</p> <p>Interactive Constrained Frequent-Pattern Mining System  Carson Kai-Sang Leung  The University of Manitoba</p> <p>Efficient integration of data mining techniques  Fadila Bentayeb, Jérôme Darmont, Cédric Udréa  Laboratoire ERIC, Université Lumière Lyon 2</p> <p>Modeling, Storing and Mining Moving Object Databases  Dieter Pfoser, Sotiris Brakatsoulas, Nectaria Tryfona  CTI</p> <p>A Pre-processing Tool for Web Usage Mining in the Distance Education Domain  Carlos Marquardt, Karin Becker  PUCRS</p> <p>SESSION II-I  (Topics in Data Engineering) Chair: Gabriel David</p> <p>Intelligent Query Answering Based on Neighborhood Systems and Data Mining Techniques  T.Y.Lin, Xiaohua Hu, Nick Cercone, Jianchao Han  Drexel University</p> <p>Dependence Among Terms in Vector Space Model  Karina Santos, Ilmério Silva, João Souza  Universidade Federal de Uberlândia</p> <p>Top-k Closest Pairs Join Query: An Approximate Algorithm for Large High Dimensional Data  Clara Pizzuti, Fabrizio Angiulli, Clara Pizzuti  ICAR-CNR</p> <p>Integration of Relational Databases and Web Site Content for Product and Page Recommendation  Przemyslaw Kazienko, Maciej Kiewra  Wroclaw University of Technology</p> <p>Algorithms for Efficient Processing of Complex Queries in Node-Partitioned Data  Pedro Furtado  DEI-Univ Coimbra, Portugal</p> <p>Active Databases as Information Systems  Vijaya srikanti, Dina Goldin, Srinath Srinivasa  University of Connecticut.</p> <p>Coffee break</p> <p>SESSION III  (SEMI-STRUCTURED DATABASES AND XML) Chair: Anne Doucet</p>					

Synchronizing XPath Views  
Torben Bach Pedersen, Dennis Pedersen  
Aalborg University, Dept. of CS

Efficient Processing of XML Containment Queries using Partition-Based Schemes  
Zografoula Vagena, Mirella M. Moro, Vassilis J. Tsotras  
University of California, Riverside

Equivalences and optimizations in an expressive XSLT fragment  
Alberto Trombetta, Danilo Montesi  
Università dell'Insubria, Italy

Reception

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**July 8, 2004**

INVITED SPEAKER: Chair: Bipin Desai

Mass Collaboration: A Case Study  
Raghu Ramakrishnan,  
Univ. of Wisconsin Coffee break

SESSION IV  
(WEB SEARCH AND NAVIGATION) Chair: Gottfried Vossen

Non-Invasive Support for Personalized Navigation of Websites  
Andrea Tagarelli, Sergio Fiesca, Sergio Greco, Ester Zumpano DEIS,  
University of Calabria

AutoBib: Automatic Extraction of Bibliographic Information on the Web  
Jun Yang, Junfei Geng  
Duke University

A Gateway From HTML to XML  
Fu Tao, Liu Mengchi  
Carleton University

LUNCH SESSION V  
(PEER TO PEER DATABASES AND SEMANTIC WEB) chair: Peter Bodori

An Ontology-based Framework for XML Semantic Integration  
Isabel Cruz, Huiyong Xiao, Feihong Hsu  
University of Illinois at Chicago

Where's Charlie: Family based heuristics for Peer-to-Peer Schema Integration  
J. Tranier, R. Baraër, Z. Bellahsene, M. Teisseire  
LIRMM

PinS: Peer to Peer Interrogation and Indexing System  
Cyril Labbe, Claudia Roncancio, Maria del Pilar Villamil  
LSR Laboratory

Sharing Communities Experiences for Query Propagation in Peer-to-Peer Systems  
Anne doucet, Nicolas Lumineau  
LIP6

SESSION V-I  
(Topics in DB Engineering) Chair: Albrecht Schmidt

Efficient High-Dimensional Indexing by Superimposing Space-Partitioning Schemes  
Ratko Orlandic, Jack Lukaszuk  
Illinois Institute of Technology

Adaptable Query Evaluation using QBF  
Tuyet-Trinh Vu, Christine Collet  
LSR-IMAG

Surrogate Joins for Massive Data on Tertiary Storage System  
Baoliang Liu, Jianzhong Li, Yanqiu Zhang  
Harbin Institute of Technology

A Structural Approach Towards the Maintenance of Database Applications  
Spyros Gardikiotis, Nicos Malevris, Themistoklis Konstantinou  
Athens University of Economics and Business

A Window-Based Approach to Retrieving Memory-Resident Data for Query Execution  
Jayaprakash Pisharath, Alok Choudhary, Mahmut Kandemir  
Northwestern University

Coffee break

SESSION VI  
(DATABASE APPLICATIONS II) Chair: Ana Maria Moura

Application-Tailored Database Systems: a Case of Aspects in an Embedded Database  
Aleksandra Tesanovic, Ke Sheng, Jörgen Hansson  
Linköping University

Grid Databases for Shared Image Analysis in the MammoGrid Project  
Richard McClatchey, David Manset  
UWE

Interoperable Server-based Cache Consistency Algorithm  
Peter Bodorik, Dawn Jutla, Yueping Lu  
Dalhousie University

Banquet

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**July 9, 2004**

Invited Talk: Chair: Henrique Madeira  
"Enterprise Grids on Oracle10g",  
Andy Cleverly,  
Director, Technology Marketing, EMEA, Oracle Corporation

Coffee break

SESSION VII  
(ACCESS METHODS AND DATA STRUCTURES) Chair: Gottfried Vossen  
Parameter Estimation Using B-Trees  
Albrecht Schmidt, Michael Boehlen  
Aalborg University

Efficient Algorithm for Path-based Range Query in Spatial Databases  
Hoong Kee Ng, Hon Wai Leong, Ngai Lam Ho  
National University of Singapore

Query Load Balancing for Incremental Visible Object Extraction  
Linas Bukauskas, Michael Boehlen  
Aalborg University

LUNCH SESSION VIII  
(DATA WAREHOUSING) Chair: Carson Leung

The Decoration Operator: A Foundation for On-Line Dimensional Data Integration  
Torben Bach Pedersen, Dennis Pedersen, Karsten Riis  
Aalborg University

Building Large ROLAP Data Cubes in Parallel  
Andrew Rau-Chaplin, Ying Chen, Frank Dehne, Todd Eavis  
Dalhousie University

Implementing Data Cubes via Subcubes  
Huei-Huang Chen, Kuo-Wei Ho  
Tatung University

SESSION VIII-I  
(Topics in DB Applications) Chair: Henrique Madeira

Extraction of synonymies, hyponymies, overlappings and homonymies from XML Schemas at various  
Domenico Ursino, Pasquale De Meo, Giovanni Quattrone, Giorgio Terracina  
DIMET, Università Mediterranea di Reggio Calabria

Selection of XML Views to Materialize in COMMIX System  
Tengjiao Wang, Yunfeng Liu  
CS & T Dept. National Laboratory on Machine Perception

Testing Intersection of XPath Expressions under DTDs  
Stefan Böttcher  
University of Paderborn

Preemptive Maximum Stretch Optimization Scheduling for Wireless On-Demand Data Broadcast  
Xiao Wu, Victor C. S. Lee  
City University of Hong Kong

Curve-Based Representation of Moving Object Trajectories  
Byunggu Yu, Seon Kim, Thomas Bailey, Ruben Gamboa  
University of Wyoming

Coffee break

SESSION IX (PERFORMANCE, OPTIMISATION AND DATA MODELS) Chair: Orlando Belo

Using Reflection to Introduce Self-Tuning Technology into DBMSs  
Patrick Martin, Wendy Powley, Darcy Benoit  
Queen's University

Autonomous Query-driven Index Tuning  
Sattler Kai-Uwe, Eike Schallehn, Ingolf Geist  
TU Ilmenau

Dynamic Object Roles - Adjusting the Notion for Flexible Modeling  
Piotr Habela, Andrzej Jodlowski, Jacek Plodzien, Kazimierz Subieta  
Polish-Japanese Institute of Information Technology

Session X(Poster Session)

Meta many-valued logic programming for incomplete and locally inconsistent databases  
Zoran Majkic Dipartimento di Informatica e Sistemistica,  
University of Roma

Analysing the effect of network states in query cost estimation over the Internet  
Zhining Liao, Weiru Liu, Jun Hong

University of Ulster

Incremental Mining of Web Sequential Patterns Using PLWAP Tree on Tolerance MinSupport  
Christie Ezeife, Min Chen  
University of Windsor

Constructing XML Views over Binary Data  
Norihide Shinagawa, Hiroyuki Kitagawa  
Center for Environmental Remote Sensing, Chiba University

Detection of Sequential Patterns of Events for Supporting Business Intelligence Solutions  
Lilian Harada  
Fujitsu Laboratories Ltd.

Pushing Knowledge Management in Web Information Systems Engineering  
Alfredo Cuzzocrea, Carlo Mastroianni  
DEIS - University of Calabria

ROSA: a Repository of Objects with Semantic Access for e-Learning  
Fabio Porto, Ana Maria Moura, Fábio José Coutinho Silva  
Instituto Militar de Engenharia

SESSION XI (Farewell Dinner)  
IDEAS'05 and beyond  
Bipin C. Desai  
Adieu Jorge Bernardino

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**DAY 1 - Monday July 25, 2005**

08:30 - 17:30 Room: EV2-260 Registration

09:00 - 09:30 I: Opening Address Room: EV2-260 Chair: Bipin C. Desai

Gottfried Vossen, University of Muenster

Dean Nabil Esmail, ENCS, Concordia University

09:30 - 10:30 II: Invited Talk I Room: EV2-260 Chair: Gottfried Vossen

*Incremental Methods for Simple Problems in Time Series: Algorithms and Experiments*

Dennis Shasha, New York University

10:30 - 11:00 Coffee Break

11:00 - 12:30 III: Workflow Management and Services Room: EV2-260 Chair: Todd Eavis

*Detecting Dependency Conflicts in Advanced Transaction Models*

Indrakshi Ray; Tai Xin, Colorado State University

*Building Information Systems by Orchestrating Open Services*

Khalid Belhajjame, Univ. of Manchester; Christine Collet; Genoveva Vargas-Solar, Univ. of Grenoble

*Persistent Middle Tier Components without Logging*

David Lomet, Microsoft Research

12:30 - 14:00 Faculty Club Lunch

14:00 - 15:30 IV: Database Query Languages Room: EV2-260 Chair: N. Shiri

*NP datalog: A Logic Language for NP Search and Optimization Queue*

Ester Zumpano, Irina Trubitsyna, Sergio Greco, University of Calabria

*Querying with Negation in Data Integration Systems*

Zoran Majkic, University of Maryland, Computer Science UMIACS

*Evaluation of Queries on Tree-Structured Data using Dimension Graphs*

Theodore Dalamagas; Antonis Koufopoulos, National Techn. Univ. of Athens

Dimitri Theodoratos; Vincent Oria, New Jersey Institute of Technology

14:00 - 15:30 V: Large Databases & XML Room: EV2-184 Chair: Dennis Shasha

*Data Updating Between the Operational and Analytical Databases through dw-log algorithm*

Joao Eduardo Ferreira; Bianca Goncalves; Isabel Italiano, University of Sao Paulo

*Utilizing Indexes for Approximate and On-line Nearest Neighbor Queries*

Lin King Ip; Koteswara Kommeneni; Mike Nolen, University of Memphis

*An Incremental Clustering Scheme for Duplicate Detection in Large Databases*

Giuseppe Manco; Eugenio Cesario; Francesco Folino; Luigi Pontieri, ICAR-CNR

*XML and Relational Data: Towards a Common Model and Algebra*

Matteo Magnani, University of Bologna; Danilo Montesi, University of Camerino

15:30 - 16:00 Coffee break

16:00 - 17:30 VI: Data Integration Room: EV2-260 Chair: Indrakshi Ray

*Automatically Maintaining Wrappers for Web Sources*

Juan Raposo; Alberto Pan; Manuel Alvarez, Univ. of A Coruña; Justo Hidalgo, Denodo Tech. Inc.

*Semi-structured Data Management in the Enterprise: A Nimble, High-Throughput, and Scalable Approach*

Naveen Ashish; David Bell; David Maluf, NASA Ames Research Center

*Pattern-based Information Integration in Dynamic Environments*

Jürgen Göres, University of Kaiserslautern

17:30 - 19:30 Atrium EV Building Reception

Posters by CSE Graduate Students

*Using Domain-Specific Terminology to Improve Question Answering in a Restricted Domain*

Hai Doan-Nguyen; Leila Kosseim

*Efficiently Mining Frequent Itemsets from Very Large Databases*

Jianfei Zhu; G. Grahne

*Database Security Architecture based on Host Identity Protocol (HIP)*

Xueyong Zhu; J. William Atwood

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C. Chen

**DAY 2 - Tuesday July 26, 2005**

08:45 - 17:30 Room: EV2-260 Registration

09:00 - 10:00 VII: Invited Talk II Room: EV2-260 Chair: Klaus Dittrich

*Agents and Databases: Friends or Foes?*

Peter C. Lockemann, University of Karlsruhe

10:00 - 10:30 Coffee break

10:30 - 12:00 VIII: XML and XQuery Room: EV2-260 Chair: Sudarshan Chawathe

*RelaXML: Bidirectional Transfer between Relational and XML Data*

Steffen Ulsø Knudsen; Torben Bach Pedersen; Christian Thomsen; Kristian Torp, Aalborg Univ.

*Rewriting-based Optimization for XQuery Transformational Queries*

Maxim Grinev; Peter Pleshchakov, Institute for System Programming RAS

*Order-sensitive XML Query Processing over Relational Sources: An Algebraic Approach*

**Ling Wang; Elke Rundensteiner; Song Wang**, Worcester Polytechnic Institute  
**12:00 - 13:30 Faculty Club Lunch**  
**13:30 - 15:00 IX: Query Processing Room: EV2-260 Chair: René Witte**  
*Semantic Query Transformation using Ontologies*  
**Chokri Ben Necib; Johann-Christoph Freytag**, Humboldt University of Berlin  
*Overcoming Limitations of Approximate Query Answering in OLAP*  
**Alfredo Cuzzocrea**, DEIS-Unical & ICAR-CNR  
*Efficient Relational Joins with Arithmetic Constraints on Multiple Attributes*  
**Chuang Liu; Lingyun Yang**, University of Chicago; **Ian Foster**, Argonne National Laboratory  
**13:30 - 15:00 X: P2P, Histograms, Mobile Databases Room: EV2-184 Chair: P. C. Lockemann**  
*Adaptive Routing Filters for Robust Query Processing in Schema-Based P2P Systems*  
**Marcel Karnstedt; Ernst-August Stehr; Kai-Uwe Sattler; Katja Hose**, TU Ilmenau  
*Self-Learning Histograms for Changing Workloads*  
**Xiaoqing Li; Bo Zhou; Jinxiang Dong**, Zhejiang University  
*Dynamic Histograms for Non-Stationary Updates*  
**Elizabeth Lam**, Equitrac Canada ULC; **Kenneth Salem**, University of Waterloo  
*An Integrated Commit Protocol For Mobile Network Databases*  
**Heinz Schweppe; Joos Hendrik Böse**, Freie Universität Berlin; **Le Gruenwald**, Univ.of Oklahoma;  
**Sebastian Obermeier; Stefan Böttcher; Thorsten Steenweg**, Univ. of Paderborn  
**15:00 - 15:30 Coffee break**  
**15:30 - 17:00 XI: Access Methods and Data Streams Room: EV2-260 Chair: Elizabeth Lam**  
*Hint and Run: Accelerating XPath Queries*  
**Ioana Stanoi; Christian Lang; Sriram Padmanabhan**, IBM  
*Design and Evaluation of Database Layouts for MEMS-Based Storage Systems*  
**Jayaprakash Pisharath; Alok Choudhary; Wei-keng Liao**, Northwestern University  
*Differencing Data Streams*  
**Sudarshan Chawathe**, University of Maryland  
**17:00 - 18:30 Free time**  
**18:45 - 22:00 Auberge "Le Saint-Gabriel" Dinner**

### Day 3 - Wednesday July 27, 2005

**09:00 - 12:00 Room: EV2-260 Registration**  
**09:15 - 10:00 Special Presentation Room: EV2-260 Chair: Bipin C. Desai**  
 CS++  
**T. H. Merrett**, SOCS, McGill University  
**10:00 - 10:30 Coffee break**  
**10:30 - 12:00 XIII: Data Generation and Mining Room: EV2-260 Chair: Tim Merrett**  
*Indexing Relational Database Content Offline for Efficient Keyword-Based Search*  
**Qi Su; Jennifer Widom**, Stanford University  
*Distribution Based Database Generation Techniques for Itemset Mining*  
**Ganesh Ramesh**, University of British Columbia; **Mohammed Zaki**, Rensselaer Polytechnic Institute;  
**William Maniatty**, SUNY-Albany  
*Privacy Aware Data Generation for Testing Database Applications*  
**Xintao Wu; Chintan Sanghvi; Yongge Wang; Yuliang Zheng**, University of North Carolina at Charlotte  
**10:30 - 12:00 XIV: Queries and Security Room: EV2-184 Chair: Yiu-kai Ng**  
*Fault-Tolerance in Distributed Query Processing*  
**Jim Smith; Paul Watson**, University of Newcastle upon Tyne  
*A Method of Security Improvement*  
**Huang Yiqun**, HUST, China  
*On the Intersection of XPath Expressions*  
**Beda Christoph Hammerschmidt; Volker Linnemann**, Institute of Information System;  
**Martin Kempa**, SD&M AG  
**12:00 - 13:30 Lunch**  
**13:30 - 15:00 XV: Transactions and Services Room: EV2-260 Chair: Todd Eavis**  
*Using the Lock Manager to Choose Timestamps*  
**David Lomet**, Microsoft Research; **Christian Jensen**, Aalborg Univ.; **Richard Snodgrass**, Univ. of Arizona  
*Incremental Fusion of XML Fragments through Semantic Identifiers*  
**Maged El Sayed; Elke Rundensteiner; Murali Mani**, Worcester Polytechnic Institute  
*Nomadic Web Service Clients*  
**Kamal Elbashir; Ralph Deters**, University of Saskatchewan  
**13:30 - 14:45 XVI: Integration and Caching Room: EV2-184 Chair: Rombout Meijer**  
*Fine-Granularity Access Control in 3-tier Laboratory Information Management Systems*  
**Bettina Kemme; Xueli Li**, McGill University  
*Evaluating and Improving Integration Quality for Heterogeneous Data Sources using Statistical Analysis*  
**Evgeniya Altareva; Stefan Conrad**, Heinrich-Heine-University of Duesseldorf  
*Categorization and Information Extraction of Multilingual HTML Documents*  
**SeungJin Lim**, Utah State University; **Yiu-Kai Ng**, Brigham Young Univ.  
**15:00 - 15:30 Coffee break**  
**15:30 - 17:15 XVII: Peer-to-Peer and Data Streams Room: EV2-260 Chair: Gottfried Vossen**  
*A Hierarchy Navigation Framework: Supporting Scalable Interactive Exploration over Large Databases*  
**Elke Rundensteiner; Matt Ward; Nishant Metha**, Worcester Polytechnic Institute  
*Flexible Update Management in Peer-to-Peer Database Systems*  
**David Del Vecchio; Sang Son**, University of Virginia  
*An Adaptive Multi-Objective Scheduling Selection Framework for Continuous Query Processing*  
**Yali Zhu; Bradford Pielech; Elke Rundensteiner; Luping Ding; Timothy Sutherland**,  
 Worcester Polytechnic Institute

IDEAS in 2006  
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Closing remarks



**Gottfried Vossen**

**IMPORTANT DATES:**

*Early Registration: May 14- June 30, 2005*

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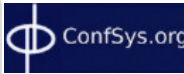

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Final Program		
	<p><b>Session 1 Inauguration &amp; Invited Talk 1</b>  <b>Date:</b> 2006-12-11  <b>Time:</b> 09:00 — 10:40  <b>Location:</b> Hall 1  <b>Chair:</b> Dr. Surendra Prasad  -- Topological Analysis of Network Attack Vulnerability  <i>Sushil Jajodia</i></p>	<p>Security Certificate  Submission  Author/User FAQ  Author Help  Grace Period  Embedding Fonts</p>
	<p><b>Session 2 Mobile Computing and Database Systems</b>  <b>Date:</b> 2006-12-11  <b>Time:</b> 11:00 — 12:30  <b>Location:</b> Hall 1  <b>Chair:</b> Dr. Nemtollaah Shiri  -- Generalized Indexing for Energy-Efficient Access to Partially Ordered Broadcast Data in Wireless Networks  <i>Dimitrios Katsaros , Nikos Dimokas , Yannis Manolopoulos</i>  -- SURCH: Distributed Aggregation over Wireless Sensor Networks  <i>Xingbo Yu , Sharad Mehrotra , Nalini Venkatasubramanian</i>  -- CADRE: A Collaborative replica allocation and deallocation approach for Mobile-P2P networks  <i>Anirban Mondal</i></p>	<p>Sample</p> <p>Copyright Form  Latex article.cls  ACM CCS code  Paper Review: tex  Paper Review: pdf  Paper Final: tex  Paper Final: A4  Paper Final: US Ltr</p>
	<p><b>Session 3 Lunch &amp; Poster I</b>  <b>Date:</b> 2006-12-11  <b>Time:</b> 12:30 — 14:00  <b>Location:</b>  <b>Chair:</b> Dr.  -- Malafide Intension and its mapping to Privacy Policy Purposes for Masquerading  <i>Vikram Goyal , Shyam Gupta , Anand Gupta</i>  -- Towards a Lightweight Framework for Privacy Preserving P2P XML Databases  <i>Alfredo Cuzzocrea , Angela Bonifati , Alfredo Cuzzocrea</i></p>	<p>Sponsors</p>  
	<p><b>Session 4 Access Methods and Data Structures</b>  <b>Date:</b> 2006-12-11  <b>Time:</b> 14:40 — 15:30  <b>Location:</b> Hall 1  <b>Chair:</b> Dr. Rombout Meijer  -- A Tree for All Seasons  <i>Ioana Stanoi , George Mihaila</i>  -- Efficient Processing of Narrow Range Queries in Multi-dimensional Data Structures  <i>Michal Krátký , Michal Krátký , Václav Sná?el , Jaroslav Pokorný , Pavel Zezula</i>  -- Shrunked Data Marts Enabled for Negative Caching  <i>Maik Thiele , Wolfgang Lehner</i></p>	
	<p><b>Session 5 Data Stream Processing</b>  <b>Date:</b> 2006-12-11  <b>Time:</b> 16:00 — 17:00  <b>Location:</b> Hall 1  <b>Chair:</b> Dr. Jorge Bernardino  -- Efficient Mining of Constrained Frequent Patterns from Streams  <i>Carson Kai-Sang Leung , Quamrul I. Khan</i>  -- Efficient Incremental Subspace Clustering in Data Streams  <i>Maria Kontaki , Apostolos Papadopoulos , Yannis Manolopoulos</i>  -- Securing the Borealis Data Stream Engine  <i>Wolfgang Lindner , Joerg Meier</i></p>	
	<p><b>Session 6 Query Processing and Optimization I</b>  <b>Date:</b> 2006-12-11  <b>Time:</b> 16:00 — 18:00  <b>Location:</b> Hall 2  <b>Chair:</b> Dr. Arturas Mazeika  -- An inside analysis of a genetic-programming based optimizer  <i>Victor Muntés-Mulero , Josep Aguilar-Saborit , Calisto Zuzarte , Volker Markl , Josep-Lluís Larriba-Pey</i>  -- Parallelizing XQuery In a Cluster Environment  <i>Gagan Agrawal , Xiaogang Li</i>  -- An Evolutionary Approach to the Selection and Allocation of Distributed Cubes  <i>Orlando Belo , Jorge Loureiro , Orlando Belo</i>  -- ARGUS: Efficient Scalable Continuous Query Optimization for High-Volume Data Streams  <i>Jin Chun , Jaime Carbonell</i>  -- Towards Integrated Query Processing for Object-Relational and XML Data Sources  <i>Iryna Kozlova , Olga Reimer , Norbert Ritter</i></p>	
	<p><b>Session 7 Keynote Talk</b>  <b>Date:</b> 2006-12-12  <b>Time:</b> 09:30 — 10:45  <b>Location:</b> Hall 1  <b>Chair:</b> Dr. S. K. Gupta  -- Datalog Meets Data-Flow Analysis  <i>Jeffery Ullman</i></p>	
	<p><b>Session 8 Data Mining and Knowledge Discovery</b></p>	

Date: 2006-12-12  
 Time: 11:00 — 12:30  
 Location: Hall 1  
 Chair: Dr. Todd Eavis  
 -- Privacy preserving data mining algorithms Without the use of secure Computation or Perturbation  
*ehud Gudes , Alexander Gurevich*  
 -- Effective Incremental Clustering for Duplicate Detection in Large Databases  
*Giuseppe Manco , Francesco Folino , Luigi Pontieri*  
 -- PAID: Mining Sequential Patterns by Passed Item Deduction in Large Databases  
*Zhenglu Yang , Yitong Wang , Masaru Kitsuregawa*

Session 9 Poster II & Lunch

Date: 2006-12-12  
 Time: 12:30 — 14:00  
 Location:  
 Chair: Dr.  
 -- Providing transactional properties to service coordination  
*Geneveva Vargas-Solar , Alberto Portilla , Christine Collet , Geneveva Vargas-Solar , José-Luis Zechinelli-Martini , Luciano Garcia-Banuelos*  
 -- pBIRCH: A Scalable Parallel Clustering Algorithm for Incremental Data  
*ashish mangla , Ashwani Garg , Neelima Gupta , Vasudha Bhatnagar , Ashish Mangla*  
 -- An Attribute Based Storage Method for Speeding up CLIQUE Algorithm for Subspace Clustering  
*Jyoti Pawar , P.R. Rao*

Session 10 Invited Talk 2

Date: 2006-12-12  
 Time: 14:00 — 15:00  
 Location: Hall 1  
 Chair: Dr. Y.K. Sharma  
 -- Value Added Mobile Applications  
*IS Mumick*

Session 11 Database Applications 1

Date: 2006-12-12  
 Time: 15:00 — 16:30  
 Location: Hall 1  
 Chair: Dr. S.K. Wasan  
 -- A Unit-Test Framework for Database Applications  
*Kristian Torp , Claus A. Christensen , Steen Gundersborg , Kristian de Linde*  
 -- Trajectory Similarity Search in Spatial Networks  
*Apostolos Papadopoulos , Eleftherios Tiakas , Alexandros Nanopoulos , Yannis Manolopoulos , Dragan Stojanovic , Slobodanka Djordjevic-Kajan*  
 -- Towards Traceability across Sovereign, Distributed RFID Databases  
*Stefan Schoenauer , Rakesh Agrawal , Alvin Cheung , Karin Kailing*

Session 12 Query Processing and Optimization II

Date: 2006-12-12  
 Time: 17:00 — 18:30  
 Location: Hall 1  
 Chair: Dr. N. Parimala  
 -- Exploiting Indifference for Customization of Partial Order Skylines  
*Wolf-Tilo Balke , Ulrich Guntzer , Wolf Siberski*  
 -- Distributed Data Summaries for Approximate Query Processing in PDMS  
*Katja Hose , Daniel Klan , Kai-Uwe Sattler*  
 -- Multi-dimensional Histograms with Tight Bounds for the Error  
*Linas Baltrunas , Arturas Mazeika , Michael Boehlen*

Session 13 Database Application 2

Date: 2006-12-12  
 Time: 17:00 — 18:30  
 Location: Hall 2  
 Chair: Dr. B. Chandra  
 -- Global Epidemiological Outbreak Surveillance System Architecture  
*Ricardo Santos , Jorge Bernardino*  
 -- Integrating and Querying P2P Deductive Databases  
*Ester Zumpano , Luciano Caroprese*  
 -- A similarity based approach for integrated Web caching and content replication in CDNs  
*Konstantinos Stamos , George Pallis , Charilaos Thomos , Athena Vakali*  
 -- Watermark Based Copyright Protection of Outsourced Database  
*Zhu Qin , YANG Ying , LE Jia-jin , LUO Yi-shu*

Session 14 Invited Talk 3

Date: 2006-12-13  
 Time: 09:30 — 10:30  
 Location: Hall 1  
 Chair: Dr. R. K. Arora  
 -- Retrieval of Biomedical Images: Issues and Techniques  
*Prabir Bhattacharya*

Session 15 Databases and Information Retrieval

Date: 2006-12-13  
 Time: 11:00 — 12:30  
 Location: Hall 1  
 Chair: Dr. Peter Bodorik  
 -- u38: A Framework for Database-Supported Enterprise Document-Retrieval  
*Mangold Christoph , Bernhard Mitschang , Holger Schwarz*  
 -- Collaborative Filtering Process in a whole new light  
*Panagiotis Symeonidis , Panagiotis Symeonidis , Alexandros Nanopoulos , Apostolos Papadopoulos , Yannis Manolopoulos*  
 -- Visualization of Web Usage Patterns  
*Srinidhi Kannappady , Sudhir P. Mudur , Nematollaah Shiri*

Session 16 Poster III & Lunch

Date: 2006-12-13  
 Time: 12:30 — 14:00  
 Location:  
 Chair: Dr.  
 -- Probabilistic Internal Privacy Intrusion Detection  
*Xiangdong An , Xiangdong An , Dawn Jutta , Nick Cercone*  
 -- Online Recovery of a Distributed Database from Malicious Attack  
*Shamik Surai , Anindya Chakraborty , Manoj Garg , Arun Kumar Majumdar*

**Session 17 Semi-structured Databases and XML**

Date: 2006-12-13  
 Time: 14:00 — 15:30  
 Location: Hall 1  
 Chair: Dr. Naveen Prakash  
 -- XML Document Correction: Incremental Approach Activated by Schema Validation  
*Ahmed Cheriat , Béatrice Bouchou , Ahmed Cheriat , Mirian Halfeld Ferrari , Agata Savary*  
 -- Visual Modeling of Behavioral Properties in the LVM for XML Using XSemantic Nets  
*Rajugan R. , Elizabeth Chang , Ling Feng , Tharam S. Dillon*  
 -- Visual Keyword-based Image Retrieval using Correlation-Enhanced Latent Semantic Indexing, Similarity Matching & Query Expansion in Inverted Index  
*Md. Mahmudur Rahman , Bipin C Desai , Prabir Bhattacharya*

**Session 18 Database Applications 3**

Date: 2006-12-13  
 Time: 16:00 — 17:30  
 Location: Hall 1  
 Chair: Dr. Manohar Lal  
 -- LogicFence: A Framework for Enforcing Global Integrity Constraints at Runtime  
*Shibashis Guha , Srinath Srinivasa , Saikat Mukherjee , Ranajoy Malakar*  
 -- Towards an Approach for Web services Substitution  
*Yehia TAHER , Djamel Benslimane , Marie-Christine Fauvet , Zakaria Maamar*  
 -- Querying Encrypted XML Documents  
*Ravi Chandra Jammalamadaka , Ravi Chandra Jammalamadaka , Sharad Mehrotra*

**Session 19 Database Applications 4**

Date: 2006-12-13  
 Time: 16:00 — 17:30  
 Location: Hall 2  
 Chair: Dr. M. Balakrishnan  
 -- Data-Driven Publication of Relational Databases  
*Philippe Rigaux , Sonia Guéhis , Emmanuel Waller*  
 -- Exploring the Capabilities of Mobile Agents in Distributed Data Mining  
*umakant kulkarni , Kiran Tangod , Srinivas Mangalwede , Anil Yardi*  
 -- Dependency Sensitive Shadow SWIFT  
*Udai Shanker , Manoj Misra , Anil K Sarje , Rahul Sisondia*  
 -- Classification of Mammograms Using Decision Trees  
*Vibha Lakshmikanth*

**Session 20 Concluding Session**

Date: 2007-12-13  
 Time: 17:30 — 18:00  
 Location: Hall 1  
 Chair: Dr. S. K. Gupta

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## IDEAS'07 Final Program

### Session 1 Access Methods and Data Structures

Date: 2007-09-06  
Time: 09:00 — 10:30  
Location:  
Chair: Dr.Ken Barker

- **Comparison of Complete and Elementless Native Storage of XML Documents**  
*Theo Härder (Germany)* , *Christian Mathis* , *Karsten Schmidt (Germany)* , Universität Kaiserslautern
- **The LBF r-tree: Efficient Multidimensional Indexing with Graceful Degradation**  
*Todd Eavis* , *David Cueva (Canada)* , Concordia University
- **Bitmap Index Design Choices and Their Performance Implications**  
*Elizabeth O'Neil (United States)* , *Patrick O'Neil (United States)* , *Kesheng Wu* , Lawrence Berkeley National Laboratory

### Session 2 Data Stream Processing

Date: 2007-09-06  
Time: 11:00 — 12:30  
Location:  
Chair: Dr.Quang Trinh

- **Streaming Random Forests**  
*Hanady Abdulsalam (Canada)* , *David Skillicorn (Canada)* , *Patrick Martin (Canada)* , Queen's University
- **Energy-Efficient Monitoring of Mobile Objects with Uncertainty-Aware Tolerances**  
*Tobias Farrell* , *Reynold Cheng (Hong Kong)* , *Kurt Rothermel (Germany)* , Universität Stuttgart
- **Stream Processing in a Relational Database: a Case Study**  
*Andrzej Hoppe (Canada)* , *Jarek Gryz* , York University

### Session 3 Data Integration

Date: 2007-09-06  
Time: 14:00 — 15:30  
Location:  
Chair: Dr.Bipin C. Desai

- **Integration of Patent and Company Databases**  
*Matteo Magnani (Italy)* , *Danilo Montesi (Italy)* , University of Bologna
- **Boundedness of Regular Path Queries in Data Integration Systems**  
*Gosta Grahne (Canada)* , *Alex Thomo (Canada)* , University of Victoria
- **Semantic Interoperability Between Relational Database Systems**  
*Quang Trinh (Canada)* , *Ken Barker (Canada)* , *Reda Alhajj (Canada)* , University of Calgary

### Session 4 Semi-structured Databases and XML

Date: 2007-09-06  
Time: 16:00 — 17:30  
Location:  
Chair: Dr.Theo Haerder

- **Structural Semi-Join: A light-weight structural join operator for efficient XML path query pattern matching**  
*Hyoseop Shin (Korea Republic)* , *Seokhyun Son (Korea Republic)* , Konkuk University
- **Approximate Structural Matching over Ordered XML Documents**  
*Nitin Agarwal* , *Magdiel Galan (United States)* , *Yi Chen (United States)* , Arizona State University
- **A Two Layered Approach for Querying Integrated XML Sources**  
*Felipe Silveira* , *Carlos Heuser (Brazil)* , Universidade Federal do Rio Grande do Sul

### Session 6 Adapting DB Technology

Date: 2007-09-07  
Time: 9:00 — 10:30  
Location:  
Chair: Dr.Alex Thomo

- **Managing Uncertain Expressions in Databases**  
*Nauman Chaudhry* , *Moginraj Mohandas (United States)* , University of New Orleans
- **Applying Hypothetical Queries to E-Commerce Systems to Support Reservation and Personal Preferences**  
*Yu Zhang* , *Chen Huajun (China)* , *Hao Sheng (China)* , *Zhaohui Wu (China)* , Zhejiang University
- **Implementing Physical Hyperlinks for Mobile Applications using RFID Tags**  
*Joachim Schwieren (Germany)* , *Gottfried Vossen* , Westfälische Wilhelms-Universität Münster

### Session 7 Databases and Digital Libraries

Date: 2007-09-07  
Time: 11:00 — 12:30  
Location:  
Chair: Dr.Gottfried Vossen

- **CINDI Robot: An Intelligent Web Crawler Based On Multi-level Inspection**  
*Rui Chen (Canada)* , *Bipin C. Desai (Canada)* , *Cong Zhou (Canada)* , Concordia University
- **An Approach for Document Categorization in Digital Library**  
*Tao Wang (Canada)* , *Bipin Desai (Canada)* , Concordia University
- **XPath Selectivity Estimation for a Mobile Auction Application**  
*Sebastian Obermeier (Germany)* , *Stefan Böttcher (Germany)* , *Thomas Wycisk (Germany)* , Universität Paderborn

### Session 8 Active Database

Date: 2007-09-07  
Time: 14:00 — 15:30  
Location:  
Chair: Dr.Richard McClatchey

- **Adaptive Execution of Stream Window Joins in a Limited Memory Environment**  
*Fatima Farag (Canada)* , *Moustafa Hammad (Canada)* , University of Calgary

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[Paper Final: tex](#)  
[Paper Final: A4](#)  
[Paper Final: US Ltr](#)

#### Sponsors



- **Avoiding Infinite Blocking of Mobile Transactions**  
*Sebastian Obermeier (Germany)* , *Stefan Böttcher (Germany)* , Universität Paderborn
- **Scalable Query Dissemination in XPeer**  
*Giovanni Conforti (Italy)* , *Giorgio Ghelli (Italy)* , *Paolo Manghi (Italy)* , *Carlo Sartiani (Italy)* , Dipartimento di Informatica - Università di Pisa

**Session 9 Data Mining, OLAP, and Knowledge Discovery**

Date: 2007-09-07  
Time: 16:00 — 17:30  
Location:  
Chair: Dr.Moustafa Hammad

- **Contrasting the Contrast Sets: An Alternative Approach**  
*Amit Satsangi (Canada)* , *Osmar Zaiane (Canada)* , University of Alberta
- **Feature Space Enrichment by Incorporation of Implicit Features for Effective Classification**  
*Abhishek Srivastava (Canada)* , *Osmar Zaiane (Canada)* , *Maria-Luiza Antonie (Canada)* , University of Alberta
- **EFFECTIVE OLAP MINING OF EVOLVING DATA MARTS**  
*Ronnie Alves (Portugal)* , *Orlando Belo (Portugal)* , *Fabio Costa (Portugal)* , Universidade do Minho

**Session 10 Data Quality and Semantics**

Date: 2007-09-08  
Time: 09:00 — 10:30  
Location:  
Chair: Dr.John Atwood

- **Foreign Superkeys and Constant References**  
*Jon Heggland* , Norwegian University of Science and Technology
- **On the Use of Semantic Blocking Techniques for Data Cleansing and Integration**  
*Jordi Nin (Spain)* , *Victor Muntés-Mulero (Spain)* , *Norbert Martínez-Bazán (Spain)* , *Josep-LL. Larriba-Pey (Spain)* , Universidad Politecnica de Cataluna
- **An Effective Multi-Layer Model for Controlling the Quality of Data**  
*Carson Kai-Sang Leung (Canada)* , *Mark Anthony F. Mateo (Canada)* , *Andrew J. Nadler (Canada)* , University of Manitoba

**Session 11 Emerging Applications I**

Date: 2007-09-08  
Time: 11:00 — 12:20  
Location:  
Chair: Dr.Carson Leung

- **On Transversal Hypergraph Enumeration in Mining Sequential Patterns**  
*Dong (Haoyuan) Li (France)* , *Anne Laurent (France)* , *Maguelonne Teisseire (France)* , Ecole Nationale Supérieure des Mines d'Ales
- **A Framework for Outlier Mining in RFID data**  
*Elio Masciari (Italy)* , ICAR-CNR
- **Examining the Performance of a Constraint-Based Database Cache**  
*Andreas Bühmann (Germany)* , *Joachim Klein* , Universität Kaiserslautern
- **Kruskal's Algorithm for Query Tree Optimization**  
*Priscila Barvick Guttoski (Brazil)* , *Marcos Stair Sunye (Brazil)* , *Fabiano Silva (Brazil)* , Universidade Federal do Parana

**Session 12 Emerging Applications II**

Date: 2007-09-08  
Time: 14:00 — 15:20  
Location:  
Chair: Dr.Fabio Porto

- **The Requirements for Ontologies in Medical Data Integration: A Case Study**  
*Ashiq Anjum (United Kingdom)* , *Peter Bloodsworth (United Kingdom)* , *Andrew Branson (United Kingdom)* , *Tamas Hauer (United Kingdom)* , *Richard McClatchey (United Kingdom)* , *Kamran Munir (United Kingdom)* , *Dmitry Rogulin (United Kingdom)* , *Jetendr Shamdasani (United Kingdom)* , University of the West of England, Bristol
- **An SLA-enabled Grid Data Warehouse**  
*Rogério Luis de Carvalho Costa (Portugal)* , *Pedro Furtado (Portugal)* , Universidade de Coimbra
- **A Theoretical Framework for Customizable Web Services Description, Discovery and Composition**  
*Omar Boucelma (France)* , *Yacine Sam (France)* , Université d'Aix-Marseille III
- **A Web Database Security Model Using the Host Identity Protocol**  
*Zhu Xueyong (China)* , *J. William Atwood (Canada)* , University of Science and Technology of China

**Session 13 DB Technology**

Date: 2007-09-08  
Time: 15:40 — 17:00  
Location:  
Chair: Dr.Todd Eavis

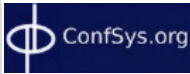
- **Multiple Entry Indexing and Double Indexing**  
*Victor de Almeida* , *Ralf Güting (Germany)* , *Christian Düntgen (Germany)* , Fernuniversität Gesamthochschule Hagen
- **An Extensible and Personalized Approach to QoS-enabled Service Discovery**  
*Le-Hung Vu (Switzerland)* , *Fabio Porto (Switzerland)* , *Karl Aberer (Switzerland)* , *Manfred Hauswirth (Ireland)* , Swiss Federal Institute of Technology, Lausanne
- **A Generalized Model for Mediator Based Information Integration**  
*Ali Kiani Tallaei (Canada)* , *Nematollah Shiri (Canada)* , Concordia University

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IDEAS	IDEAS'08 Final Program		Guide
IDEAS08	<b>Session 1 Opening</b> Date: 2008-09-10 Time: 09:15 — 09:30 Location: TBA Chair: Dr. Jorge Bernardino -- <b>IDEAS08 - the preteen years</b> <i>B Desai (Canada)</i> , Concordia University	Security Certificate Submission Author/User FAQ Author Help Grace Period Embedding Fonts	
Final Program	<b>Session 2 Peer-to-Peer Data Management</b> Date: 2008-09-10 Time: 09:30 — 11:00 Location: TBA Chair: Dr. Jorge Bernardino -- <b>Ontology-Based Data Source Localization in a Structured Peer-to-Peer Environment</b> <i>Raddad Al King (France)</i> , <i>Abdelkader Hameurlain (France)</i> , <i>Franck Morvan (France)</i> , Universite Paul Sabatier (Toulouse III) -- <b>A DHT-based Infrastructure for Ad-hoc Integration and Querying of Semantic Data</b> <i>Marcel Karnstedt (Germany)</i> , <i>Kai-Uwe Sattler (Germany)</i> , <i>Manfred Hauswirth (Ireland)</i> , <i>Brahmananda Sapkota (Ireland)</i> , <i>Roman Schmidt (Switzerland)</i> , TU Ilmenau -- <b>Robust Aggregation in Peer-to-Peer Database Systems</b> <i>Norvald Ryeng (Norway)</i> , <i>Kjetil Norvag (Norway)</i> , Norwegian University of Science and Technology	Sample Copyright Form Latex article.cls ACM CCS code Paper Review: tex Paper Review: pdf Paper Final: tex Paper Final: A4 Paper Final: US Ltr	
Photos	<b>Session 3 Real-Time Database Systems</b> Date: 2008-09-10 Time: 11:30 — 13:00 Location: TBA Chair: Dr. Domenico Sacca -- <b>Enforcing Time-constraints Effectively for QoS-aware Servers</b> <i>Pedro Furtado (Portugal)</i> , Universidade de Coimbra -- <b>REAL-TIME DATA WAREHOUSE LOADING METHODOLOGY</b> <i>Ricardo Santos (Portugal)</i> , <i>Jorge Bernardino (Portugal)</i> , Universidade de Coimbra	Sponsors  	
	<b>Session 4 QoS, Query Processing, Optimization</b> Date: 2008-09-10 Time: 14:00 — 15:30 Location: TBA Chair: Dr. Pedro Furtado -- <b>Order-Preserving Optimization of Twig Queries with Structural Preferences</b> <i>Wolf-Tilo Balke (Germany)</i> , <i>SungRan Cho (Germany)</i> , Universitat Hannover -- <b>Improved Count Suffix Trees for Natural Language Data</b> <i>Guido Sautter (Germany)</i> , <i>Klemens Böhm (Germany)</i> , <i>Cristina Abba (Germany)</i> , Universitat Fridericana Karlsruhe (Technische Hochschule) -- <b>A strategy to develop adaptive and interactive query brokers</b> <i>Christophe Bobineau (France)</i> , <i>Christine Collet (France)</i> , <i>Tuyet-Trinh Vu (Vietnam)</i> , Institut National Polytechnique de Grenoble		
	<b>Session 5 Semi-structured Databases and XML</b> Date: 2008-09-10 Time: 16:00 — 17:30 Location: TBA Chair: Dr. Richard Mcclatchey -- <b>EXsum - An XML Summarization Framework</b> <i>José de Aguiar Moraes Filho (Germany)</i> , <i>Theo Härder (Germany)</i> , Universitat Kaiserslautern -- <b>On the Efficient Search of an XML Twig Query in Large DataGuide Trees</b> <i>Radim Bača (Czech Republic)</i> , <i>Michal Krátký (Czech Republic)</i> , <i>Václav Snásel (Czech Republic)</i> , Technical University of Ostrava		
	<b>Session 6 Semi-structured Databases and XML</b> Date: 2008-09-11 Time: 09:30 — 11:00 Location: TBA Chair: Dr. Zoran Majic -- <b>Updates and Views dependencies in Semi-structured Databases</b> <i>Francoise GIRE (France)</i> , <i>Hicham Idabal (France)</i> , Universite Pantheon-Sorbonne (Paris I) -- <b>Usage-driven Storage Structures for Native XML Databases</b> <i>Karsten Schmidt (Germany)</i> , <i>Theo Härder (Germany)</i> , Universitat Kaiserslautern -- <b>Pattern Based Processing of XPath Queries</b> <i>Marks Gerard (Ireland)</i> , <i>Mark Roantree (Ireland)</i> , Dublin City University		
	<b>Session 7 Data Mining, OLAP, and Knowledge Discovery</b> Date: 2008-09-11 Time: 11:30 — 13:00 Location: TBA Chair: Dr. Christie Ezeife -- <b>Efficient Algorithms for Stream Mining of Constrained Frequent Patterns in a Limited Memory Environment</b> <i>Carson K. Leung (Canada)</i> , <i>Dale A. Brajczuk (Canada)</i> , <i>Jialiang Yu (Canada)</i> , University of Manitoba -- <b>Memory Efficient Subspace Clustering for Online Data Streams</b> <i>Nam Hun Park (Korea Republic)</i> , <i>Won Suk Lee (Korea Republic)</i> , Yonsei University -- <b>H-IQTS: A Semantics-Aware Histogram for Compressing Categorical OLAP Data</b> <i>Alfredo Cuzzocrea (Italy)</i> , <i>Domenico Saccà (Italy)</i> , University of Calabria		
	<b>Session 8 Semantic Web and Databases *</b> Date: 2008-09-11 Time: 14:00 — 15:30		

Location: TBA  
 Chair: Dr. Peter Baumann

-- **Intensional Semantics for RDF Data Structures**

*zoran majkic (P. Georges)*, University of Maryland, Computer Science UMIACS

-- **Ontology Assisted Query Reformulation Using the Semantic and Assertion Capabilities of OWL-DL**

**Ontologies**

*Kamran Munir (United Kingdom)*, *Mohammed Odeh (United Kingdom)*, *Richard McClatchey (United Kingdom)*,  
 University of the West of England, Bristol

-- **Showing Correctness of a Replication Algorithm in a Component based System**

*Bettina Kemme (Canada)*, *Huaigu Wu (Canada)*, McGill University

**Session 9 Data Management**

Date: 2008-09-11  
 Time: 16:00 — 17:30  
 Location: TBA  
 Chair: Dr. Michal Krátky

-- **Towards Generating ETL Processes for Incremental Loading**

*Thomas Jörg (Germany)*, *Stefan Deßloch (Germany)*, Universität Kaiserslautern

-- **A Unified Apriori-like Algorithm for Conjunctive Query Containment**

*Fang Wei (Germany)*, *Georg Lausen (Germany)*, Albert-Ludwigs-Universität Freiburg

-- **Pruning Attribute Values from Data Cubes with Diamond Dicing**

*Hazel Webb (Canada)*, *Owen Kaser (Canada)*, *Daniel Lemire (Canada)*, University of New Brunswick, Saint John

**Session 10 Data Mining, OLAP, and Knowledge Discovery \***

Date: 2008-09-12  
 Time: 09:30 — 11:00  
 Location: TBA  
 Chair: Dr. Carson K Leung

-- **Dynamic Data Recovery for Database Systems Based on Fine Grained Transaction Log**

*Hong Zhu (China)*, *Ge Fu (China)*, *yucui Feng (China)*, *Renchao Jin (China)*, *Kevin Lü (United Kingdom)*,  
*Jie Shi (China)*, Huazhong University of Science and Technology

-- **WIDS: A Sensor-Based Online Mining Wireless Intrusion Detection System**

*Christie Ezeife (CANADA)*, *Maxwell Ejelike (Canada)*, *Akshaia Aggarwal (Canada)*, University of Windsor

-- **Measuring Text Similarity With Dynamic Time Warping**

*Stefan Conrad (Germany)*, *Michael Matuschek (Germany)*, *Tim Schlüter (Germany)*, Heinrich-Heine Universität  
 Dusseldorf

-- **Incremental View-Based Analysis of Stock Market Data Streams**

*Andreas Behrend (Germany)*, *Christian Dorau (Germany)*, *Rainer Manthey (Germany)*, *Schueler Gereon  
 (Germany)*, Rheinische Friedrich-Wilhelms Universität Bonn

**Session 11 Applications**

Date: 2008-09-12  
 Time: 11:30 — 12:45  
 Location: TBA  
 Chair: Dr. Bipin C. Desai

-- **A Comparative Benchmark of Large Objects in Relational Databases**

*Sorin Stancu-Mara (Germany)*, *Peter Baumann (Germany)*, International University Bremen

-- **A Spot-matching Framework for Improving Matching Accuracy in Protein 2-DE Gel Image analysis**

*Jung Eun Shim (Korea Republic)*, *Yanhua Jin (Korea Republic)*, *Won Suk Lee (Korea Republic)*, Yonsei  
 University

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Session 1 Opening Session

Date: 2009-09-16 Time: 09:00 - 09:10

Chair: Dr. Bipin C. Desai

Welcome: Dr. Domenico Saccà

Session 2 Invited Talk

Date: 2009-09-16 Time: 09:10 - 10:10

Chair: Dr. Domenico Saccà

TBA

Session 3 Information Retrieval

Date: 2009-09-16 Time: 10:10 - 11:10

Chair: Dr. Jorge Bernardino

Full Paper: **Efficient Keyword Proximity Search using A Frontier-Reduce Strategy based on d-Distance Graph Index**, *Ming Zhong, Mengchi Liu*

Full Paper: **XKMis: Effective and Efficient Keyword Search on XML Databases** *Jiang Li, Junhu Wang, Maolin Huang*

Session 4 Semantic Web and Grids

Date: 2009-09-16 Time: 11:30 - 12:30

Chair: Dr. Sergio Grecco

Full Paper: **Finding reliable users and social networks in a social internet networking system**

*Pasquale De Meo, Antonino Nocera, Giovanni Quattrone, Domenico Ursino*

Short Paper: **RDFKB: Efficient Support For RDF Inference Queries and Knowledge Management**

*James McGlothlin, Latifur R Khan*

Short Paper: **Semantic caching for pervasive grids** *Laurent d'Orazio, Mamadou Kaba Traoré*

Session 5 Streaming and Sensor Data

Date: 2009-09-16 Time: 12:35 - 13:15

Chair: Dr. Alfredo Cuzzocrea

Full Paper: **NexusDS: A Flexible and Extensible Middleware for Distributed Stream Processing**

*Cipriani Nazario, Mike Eissele, Andreas Brodt, Matthias Grossmann, Bernhard Mitschang*

Short Paper: **An Online Spatio-Temporal Association Rule Mining Framework for Analyzing and Estimating Sensor Data** *Hamed Chok, Le Gruenwald*

Session 6 Data Warehousing and Spatial Data

Date: 2009-09-16 Time: 14:45 - 15:55

Chair: Dr. Sergio Flesca

Full Paper: **Incremental Aggregation of RFID Data** *Roberto De Virgilio, Riccardo Torlone, Pierpaolo Sugamiele*

Short Paper: **Optimizing Data Warehouse Loading Procedures for Enabling Useful-Time Data Warehousing** *Jorge Bernardino, Ricardo Santos*

Short Paper: **Efficient and Effective RFID Data Warehousing** *Bettina Fazzinga, Sergio Flesca, Filippo Furfaro, Elio Masciari*

Short Paper: **Formal and Conceptual Modeling of Spatio-Temporal Granularities** *Alberto Belussi, Carlo Combi, Gabriele Pozzani*

Session 7 Poster Session

Date: 2009-09-16 Time: 16:30 - 17:30

Chair: Dr. Carson K. Leung

**Algebraic Foundation of a Data Model for an Extensible Space-Based Collaboration Protocol**

*Stefan Craß, Eva Kühn, Gernot Salzer*

**Using the Automatic Attaching Function of the Cellular Data System** *Toshio Kodama,*

*Tosiyasu Kunii, Seki Yoichi*

**Uniform Query Processing in a Federation of RDFS and Relational Resources** *Graham Kemp,*

*Merja Karjalainen*

**Semantic Reconciliation in Peer Multi-Data source Management System** *Gilles Nachouki,*

*Mirna Nachouki, Marie-pierre Chastang*

**Mining Product Intention Rules from Transaction Logs of an Ecommerce Portal** *Ravi*

*Chandra Jammalamadaka, Naren Chittar, Sanjay Ghatare*

**Evaluation of Skyline Algorithms in PostgreSQL** *Fang Wei, Hannes Eder*

**Non-functional Properties to Service Coordination Using Contracts** *Javier Alfonso Espinosa-Oviedo,*

*Genoveva Vargas-Solar, José-Luis Zechinelli-Martini, Christine Collet*

**Low-voltage Electricity Customer Profiling based on Load Data Clustering** *Francesco Gullo,*

*Giovanni Ponti, Andrea Tagarelli, Salvatore Iiritano, Massimiliano Ruffolo, Diego Labate*

Session 8 Invited Talk II

Date: 2009-09-17 Time: 09:00 - 10:00

Chair: Dr. Domenico Saccà

TBA

Session 9 Transactions Management

Date: 2009-09-17 Time: 10:00 - 11:00

Chair: Dr. Z. Meral Ozsoyoğlu

Full Paper: **Concurrent Updating Transactions on Versioned Data** *Tuukka Haapasalo,*

*Ibrahim Jaluta, Seppo Sippu, Eljas Soisalon-Soininen*

Full Paper: **Semantics of a Runtime Adaptable Transaction Manager** *Florian Irmert,*

*Frank Lauterwald, Christoph P. Neumann, Michael Daum, Richard Lenz, Klaus Meyer-Wegener*

Session 10 Data Mining I

Date: 2009-09-17 Time: 11:20 - 12:50

Chair: Dr. Richard McClatchey

Full Paper: **Mining Uncertain Data for Constrained Frequent Sets** *Carson K. Leung, Dale*

*A. Brajczuk*

Full Paper: **Mining frequent conjunctive queries in star schemas** *Dominique Laurent, Tao-Yuan JEN,*

*Nicolas Spyrtos*

Full Paper: **Depth First Algorithms and Inferencing for AFD mining** *Jeremy Engle,*

*Edward Robertson*

Short Paper: **Mining Very Long Sequences in Large Databases with PLWAPLong** *Christie Ezeife,*

*Kashif Saeed, Dan Zhang*

Session 11 Data Integration

Date: 2009-09-17 Time: 14:30 - 15:20

Chair: Dr.Sergio Grecko

Full Paper: **Managing the Mappings between Domain Ontologies and Database Schemas when Formulating Relational Queries** *Kamran Munir, Mohammed Odeh, Richard McClatchey*

Short Paper: **Information Integration with Uncertainty** *Fereidoon Sadri, Ala Eshmawi*

Short Paper: **Maintaining Integrated XML Schema** *Kalpdrum Passi, Don Morgan*

Short Paper: **A Model for Matching and Integrating Heterogeneous Relational Biomedical Databases Schemas** *Yaser Karasneh, Hamidah Ibrahim*

Session 12 Data Mining II

Date: 2009-09-18 Time: 09:00 - 10:40

Chair: Dr. Kalpdrum Passi

Full Paper: **A Cluster-Based Approach to XML Similarity Joins** *Leonardo Ribeiro, Theo Härder, Fernanda Pimenta*

Full Paper: **Near-Duplicate Detection for Web-Forums** *Klemens Muthmann, Wojciech Barczynski, Alexander Löser, Falk Brauer*

Full Paper: **Discovering Expressive Process Models from Noised Log Data** *Luigi Pontieri, Antonella Guzzo, Gianluigi Greco, Francesco Folino*

Full Paper: **A Logical Framework for Detecting Anomalies in Drug Resistance Algorithms** *Luciano Caroprese, Breannán Ó Nualláin, P.M.A. (Peter) Sloot, Ester Zumpano*

Session 13 Query Languages and Optimization

Date: 2009-09-18 Time: 11:10 - 12:25

Chair: Dr. Dominique Laurent

Full Paper: **A Complete Translation from SPARQL into Efficient SQL** *En Cheng, Z. Meral Ozsoyoglu*

Full Paper: **A Magic Approach to Optimizing Incremental Relational Expressions** *Andreas Behrend*

Full Paper: **Efficient Discovery of Join Plans in Schemaless Data** *Aybar C. Acar, Amihai Motro*

Session 14 Analytics and Optimization

Date: 2009-09-18 Time: 12:25 - 13:15

Chair: Dr.Bipin C. DESAI

Full Paper: **Speeding-up Data-driven Applications with Program Summaries** *Sonia Guehis, Virginie Goasdoué-Thion, Philippe Rigaux*

Full Paper: **Efficiently Support Map-Reduce alike Computation Models Inside Parallel DBMS** *Qiming Chen, Andy Therber, Meichun Hsu, Hans Zeller, Bin Zhang, Ren Wu*

## 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 Laboratory, 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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IDEAS	IDEAS11-Final Program	Guide
IDEAS11	To see the abstract for a paper, please click on its title.	Security Certificate
Program Committee	<b>Session: Welcome</b> Date Time: 2011-09-21 From 09:00 To 09:10 Location: Auditorium C (Ferreira Cardoso Building) Chair: Porfírio Pena Filipe	Submission
External Reviewers	<b>Session: Invited Talk 1</b> Date Time: 2011-09-21 From 09:15 To 10:30 Location: Auditorium C (Ferreira Cardoso Building) Chair: Isabel F Cruz	Author/User FAQ
Invited Talks	<b>-- Advanced User Interfaces Data Integration Mobile Process Management = Save Yourself !! The WORKPAD project for supporting emergency operators</b> Tiziana Catarci (University of Roma La Sapienza, Italy)	Author Help
Final Program	<b>Session: Pause 1</b> Date Time: 2011-09-21 From 10:30 To 11:00 Location: Foyer: Auditorium C	Grace Period
Presentations	<b>Session: Data Mining, OLAP, and Knowledge Discovery</b> Date Time: 2011-09-21 From 11:00 To 12:30 Location: Auditorium C (Ferreira Cardoso Building) Chair: Tiziana Catarci	Embedding Fonts
	<b>-- Trajectory Data Analysis using Complex Networks</b> Igo Ramalho Brilhante, Jose Antonio Fernandes Macedo, Chiara Renso (Universidade Federal do Ceara, Brazil)	Sample
	<b>-- Online Outlier Detection for Data Streams</b> Shiblee Sadik, Le Gruenwald (University of Oklahoma, United States)	Copyright Form
	<b>-- Boosting Tuple Propagation in Multi-Relational Classification</b> Lucantonio Ghionna, Gianluigi Greco (University of Calabria, Italy)	Latex article.cls
	<b>Session: Lunch 1</b> Date Time: 2011-09-21 From 12:30 To 14:00 Location: Top floor: Mediateca	ACM CCS code
	<b>Session: Data Warehousing</b> Date Time: 2011-09-21 From 14:00 To 15:30 Location: Auditorium C (Ferreira Cardoso Building) Chair: Le Gruenwald	Paper Review: tex
	<b>-- A predictable storage model for scalable parallel DW</b> João Pedro Costa, Pedro Furtado (Instituto Politecnico de Coimbra, Portugal)	Paper Review: pdf
	<b>-- A Data Masking Technique for Data Warehouses</b> Ricardo Jorge Santos, Jorge Bernardino, Marco Vieira (Universidade de Coimbra, Portugal)	Paper Final: tex
	<b>-- Query Optimization Using Column Statistics in Hive</b> Anja Gruenheid, Edward R. Omiecinski, Leo Mark (Georgia Institute of Technology, United States)	Paper Final: A4
	<b>Session: Pause 2</b> Date Time: 2011-09-21 From 15:30 To 16:00 Location: Foyer: Auditorium C	Paper Final: US Ltr
	<b>Session: Distributed and Parallel Databases</b> Date Time: 2011-09-21 From 16:00 To 17:30 Location: Auditorium C (Ferreira Cardoso Building) Chair: Elio Masciari	Sponsors
	<b>-- M-TOP: Multi-Target Operator Placement of Query Graphs for Data Streams</b> Nazario Cipriani, Oliver Schiller (Universitat Stuttgart, Germany)	
	<b>-- Chimera: Data Sharing Flexibility, Shared Nothing Simplicity</b> Umar Farooq Minhas, David Lomet, Chandramohan Thekkath (University of Waterloo, Canada)	
	<b>-- ParallelGDB: A Parallel Graph Database based on Cache Specialization</b> Luis Bargañó, Víctor Muntés-Mulero, David Dominguez-Sal (Universidad Politécnica de Catalunya, Spain)	
	<b>Session: Invited Talk 2</b> Date Time: 2011-09-22 From 09:00 To 10:30 Location: Auditorium C (Ferreira Cardoso Building) Chair: Jorge Bernardino	
	<b>-- Challenges in Societal Data Management</b> Mário J. Silva (Universidade Tecnica de Lisboa, Portugal)	
	<b>Session: Pause 3</b> Date Time: 2011-09-22 From 10:30 To 11:00 Location: Foyer: Auditorium C	
	<b>Session: Database Query Languages</b> Date Time: 2011-09-22 From 11:00 To 12:30 Location: Auditorium C (Ferreira Cardoso Building) Chair: Mário J. Silva	
	<b>-- Answering Complex Structured Queries over the Deep Web</b> Fan Wang, Gagan Agrawal (Microsoft, United States)	
	<b>-- SciQL, Bridging the Gap between Science and Relational DBMS</b> Ying Zhang, Martin Kersten, Milena Ivanova, Niels Nes (CWI, Netherlands)	
	<b>-- Extend Core UDF Framework for GPU-Enabled Analytical Query Evaluation</b> Qiming Chen (Hewlett-Packard Company, United States)	
	<b>Session: Lunch 2</b> Date Time: 2011-09-22 From 12:30 To 14:00 Location: Top floor: Mediateca	
	<b>Session: QoS, Query Processing, Optimization</b> Date Time: 2011-09-22 From 14:00 To 15:30 Location: Auditorium C (Ferreira Cardoso Building) Chair: Carson K. Leung	
	<b>-- Scrubbing Query Results from Probabilistic Databases</b> Jianwen Chen, Ling Feng, Wenwei Xue (Tsinghua University, China)	

-- **Aggregates and Priorities in P2P Data Management Systems**

Luciano Caroprese, Ester Zumpano (University of Calabria, Italy)

-- **Union Rewritings for XPath fragments**

Foto N Afrati, Matthew George Damigos, Manolis Gergatsoulis (National Technical University of Athens, Greece)

**Session: Pause 4**

Date Time: 2011-09-22 From 15:30 To 16:00

Location: Foyer: Auditorium C

**Session: Data Mining, OLAP, and Knowledge Discovery - 2**

Date Time: 2011-09-22 From 16:00 To 17:15

Location: Auditorium C (Ferreira Cardoso Building)

Chair: Foto Afrati

-- **A landmark-model based system for mining frequent patterns from uncertain data streams**

Carson K. Leung (University of Manitoba, Canada)

-- **Mining Semantic Data for Solving First-rater and Cold-start Problems in Recommender Systems**

María N. Moreno, Vivian Felix López (Universidad de Salamanca, Spain)

-- **Addressing resource usage in stream processing systems: sizing window effect**

Sabina Surdu (Babes-Bolyai University of Cluj-Napoca, Romania)

-- **Using an inference mechanism for helping the data integration**

Valéria Magalhães Pequeno, João Moura Pires (Universidade Nova de Lisboa, Portugal)

-- **Query Language Constructs for Provenance**

Murali Mani, Mohamad Alawa, Arunlal Kalyanasundaram (University of Michigan - Flint, United States)

-- **A Family of Graph-Theory-Driven Algorithms for Managing Complex Probabilistic Graph Data Efficiently**

Alfredo Cuzzocrea, Paolo Serafino (University of Calabria, Italy)

**Session: Dinner**

Date Time: 2011-09-22 From 18:00 To 21:00

Location: Agora Restaurant

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

Date Time: 2011-09-23 From 09:00 To 10:30

Location: Auditorium C (Ferreira Cardoso Building)

Chair: Andrea Tagarelli

-- **A Statically Typed Query Language for Property Graphs**

Norbert Tausch, Michael Philippsen, Josef Adersberger (Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany)

-- **A clustering-based visualization of colocation patterns**

Elise Desmier, Frédéric Flouvat, Dominique Gay, Nazha SELMAOUI-FOLCHER (University of New Caledonia, New Caledonia)

-- **An Approach towards Automatic Workflow Composition through Information Retrieval**

David Chiu, Gagan Agrawal (Washington State University, United States)

-- **An Efficient Local Region and Clustering-Based Ensemble System for Intrusion Detection**

Huu Hoa Nguyen, Jérôme Darmont (Université de Lyon, France)

**Session: Pause 5**

Date Time: 2011-09-23 From 10:30 To 11:00

Location: Foyer: Auditorium C

**Session: Data Stream Processing**

Date Time: 2011-09-23 From 11:00 To 12:30

Location: Auditorium C (Ferreira Cardoso Building)

Chair: Simonas Šaltenis

-- **Efficient Incremental Breadth-Depth XML Event Mining**

Rashed Salem, Jérôme Darmont (Université de Lyon, France)

-- **Query Answering on Trajectory Cuboids using Prime Numbers Encodings**

Elio Masciari (Consiglio Nazionale delle Ricerche, Italy)

-- **Black-box Determination of Cost Models Parameters for Federated Stream-Processing Systems**

Michael Daum, Frank Lauterwald, Philipp Baumgaertel, Niko Pollner, Klaus Meyer-Wegener (Friedrich-Alexander Universität Erlangen-Nürnberg, Germany)

-- **Flexible Approximate Counting**

Scott A Mitchell (Sandia National Laboratories, United States)

**Session: Lunch 3**

Date Time: 2011-09-23 From 12:30 To 14:00

Location: Top floor: Mediateca

**Session: Performance Evaluation**

Date Time: 2011-09-23 From 14:00 To 15:30

Location: Auditorium C (Ferreira Cardoso Building)

Chair: Michael Daum

-- **Scalable Queries For Large Datasets Using Cloud Computing: A Case Study**

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

-- **FB-Tree: A B+-Tree for Flash-Based SSDs**

Martin Vang Jørgensen, René Bech Rasmussen, Simonas Šaltenis, Carsten Schjønnning (Aalborg University, Denmark)

-- **Cache-Conscious Data Placement in an In-Memory Key-Value Store**

Christian Tinnefeld (Hasso-Plattner Institute, Germany)

**Session: Pause 6**

Date Time: 2011-09-23 From 15:30 To 16:00

Location: Foyer: Auditorium C

**Session: Semantic Web and Databases**

Date Time: 2011-09-23 From 16:00 To 17:20

Location: Auditorium C (Ferreira Cardoso Building)

Chair: Scott A Mitchell

-- **Databases on the Web: national web domain survey**

Denis Shestakov (Aalto University, Finland)

-- **A New Architectural Paradigm for Content-based Web Applications: Bore**

Marco Carnuccio, Antonio Bevacqua, Riccardo Ortale, Ettore Ritacco (University of Calabria, Italy)

-- **Semantics-enabled Web APIs selection patterns**

Devis Bianchini, Valeria De Antonellis, Michele Melchiori (University of Brescia, Italy)

-- **Top-k Query Processing for Combinatorial Objects Using Euclidean Distance**

Takanobu Suzuki, Atsuhiko Takasu, Jun Adachi (Tokyo University, Japan)

**Session: Adeus, Afscheid, Au revoir, Auf Wiedersehen, 再见, 再見**

Date Time: 2011-09-23 From 17:20 To 17:30

Location: Auditorium C (Ferreira Cardoso Building)

Chair: Bipin C. Desai

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## IDEAS'12 Final Program

Time allocation(including Q/A & transition):

Full paper: 30 mins

Short Paper: 20 mins

Poster Paper: 10 mins

### Session: Registration 1

Date Time: 2012-08-08 From 08:15 To 17:00

Location: S7

### Session: Opening Session

Welcome address by Vice-dean: Jaroslav Pokorny (Charles University Prague)

Date Time: 2012-08-08 From 09:00 To 09:15

Location: S5

Chair: Jorge Bernardino

### Session: Invited Talk Paper1

Date Time: 2012-08-08 From 09:15 To 10:15

Location: S5

Chair: Jaroslav Pokorny

- [Evolving social data mining and affective analysis methodologies, framework and applications\(\)](#)  
Athena Vakali

### Break1

Date Time: 2012-08-08 From 10:15 To 10:45

Location: S5 - foyer

### Session: Data Warehousing

Date Time: 2012-08-08 From 10:45 To 12:15

Location: S5

Chair: Athena Vakali

- [TEEPA: A timely-aware elastic parallel architecture\(Full Paper\)](#)  
João Pedro Costa, Pedro Furtado
- [Sample-Based Forecasting Exploiting Hierarchical Time Series\(Full Paper\)](#)  
Ulrike Fischer, Frank Rosenthal, Wolfgang Lehner
- [Dealing with Inconsistencies in Linked Data Mashups\(Short Paper\)](#)  
Eveline Russo Sacramento, Marco Antonio Casanova, Karin K. Breitman, Jose Antonio Fernandes Macedo
- [A Stream Query Language TPQL for Anomaly Detection in Facility Management\(Poster\)](#)  
Makoto Imamura

### Lunch1

Date Time: 2012-08-08 From 12:30 To 14:00

Location: Restaurant Profesni dum

### Session: XML Languages, Models, and Middleware

Date Time: 2012-08-08 From 14:00 To 15:30

Location: S5

Chair: Le Gruenwald

- [Partitioning XML Documents for Iterative Queries\(Full Paper\)](#)  
Dario Colazzo, Nicole L. Bidoit-Tollu, Carlo Sartiani, Noor MALLA
- [XML Class Outlier Detection\(Full Paper\)](#)  
Elio Masciari
- [Mining GPS Traces to Recommend Common Meeting Points\(Short Paper\)](#)  
Sonia Khetarpaul, S K Gupta, L Venkata Subramaniam, Ullas Nambiar
- [ORDB holistic design\(Poster\)](#)  
Patricia Elizabeth Roberts

### Break 2

Date Time: 2012-08-08 From 15:30 To 16:00

Location: S5 - foyer

### Session: Moving Object Databases

Date Time: 2012-08-08 From 16:00 To 17:20

Location: S5

Chair: Qiming Chen

- [CMOA: Continuous Moving Object Anonymization\(Full Paper\)](#)  
Tsubasa Takahashi
- [Continuous Queries on Trajectories of Moving Objects\(Full Paper\)](#)  
Philip Schmiegelt, Andreas Behrend
- [Differential Evolution versus Genetic Algorithms: Towards Symbolic Aggregate Approximation of Non-normalized](#)

**Time Series(Short Paper)**

Muhammad Marwan Muhammad Fuad

**Welcome Reception**

Meet at 18:30 in room S7 or go directly to the restaurant for 19:00.

Date Time: 2012-08-08 From 19:00 To 22:00

Location: Meeting point: at 18.30 S7 (Zofin Restaurant on Slovansky ostrov)

**Registration 2**

Date Time: 2012-08-09 From 08:50 To 16:30

Location: S7

**Session: Invited Talk Paper2**

Date Time: 2012-08-09 From 09:30 To 10:30

Location: S5

Chair: Jorge Bernardino

**-- XML Query Processing -- Efficiency and Optimality()**

Radim Baca, Michal Krátký

**Break 3**

Date Time: 2012-08-09 From 10:30 To 11:00

Location: S5 - foyer

**Session: Access Methods and Data Structures**

Date Time: 2012-08-09 From 11:00 To 12:20

Location: S5

Chair: Gregory Butler

**-- Efficient Graph Management Based On Bitmap Indices(Full Paper)**

Norbert Martínez-Bazan, Victor Muntés-Mulero, Sergio Gómez-Villamor, Miguel Ángel Aguila, David Dominguez-Sal, Josep L Larriba-Pey

**-- Incrementally Maintaining Run-length Encoded Attributes in Column Stores(Full Paper)**

Abhijeet Mohapatra, Michael Genesereth

**-- A Mediator-based System for Distributed Semantic Provenance Management Systems(Short Paper)**

Mohamed Amin Sakka, Bruno Defude

**Lunch2**

Date Time: 2012-08-09 From 12:30 To 14:00

Location: Restaurant Profesni dum

**Session: QoS, Query Processing, Optimization**

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Date Time: 2012-08-09 From 14:00 To 15:30

Location: S5

Chair: Carson K. Leung

**-- The QOL approach for optimizing distributed queries without complete knowledge on data(Full Paper)**

Lourdes Martinez, Christine Collet, Christophe Bobineau, Etienne Dublé

**-- Resource Allocation Algorithm for a Relational Join Operator in Grid Systems(Full Paper)**

Deniz Cokuslu, Abdelkader Hameurlain, Franck Morvan

**-- ECTree: An Extended Tree Index For Attributed Subgraph Queries(Short Paper)**

Jun Luo, Gregory Butler

**-- Transaction Processing using Thread-to-Metadata(Poster)**

Hoda M Mokhtar

**Break 4**

Date Time: 2012-08-09 From 15:30 To 16:00

Location: S5 - foyer

**Session: P2P and Networked Data Management**

Date Time: 2012-08-09 From 16:00 To 17:30

Location: S5

Chair: Jorge Bernardino

**-- A cooperative scheme to aggregate spatio-temporal events in VANETs(Full Paper)**

Dorsaf Zekri, Bruno Defude, Thierry Delot

**-- UBIQUEST, For Rapid Prototyping of Networking Applications(Short Paper)**

Christophe Bobineau, Christine Collet, Etienne Dublé, Lourdes Martinez

**-- Efficient MD5 Hash Reversing using D.E.A. Framework For Sharing Computational Resources(Short Paper)**

Nunziato Cassavia, Elio Masciari

**-- Mining probabilistic datasets vertically(Short Paper)**

Carson K. Leung

**Concert**

Pick up tickets in S7 before 11:00Am on Thursday, Aug, 9, 2012. Meet at 1930 in S7 to go together to the concert venue.

Date Time: 2012-08-09 From 20:00 To 21:30

Location: Saint Francis of Assisi

**Session: Registration 3**

Date Time: 2012-08-10 From 08:50 To 12:00

Location: S7

Chair: Place Holder

Session: Spatial, Temporal and Scientific Databases

Date Time: 2012-08-10 From 09:00 To 10:20

Location: S5

Chair: Elio Masciari

-- **On the semantics of ST4SQL, a multidimensional spatio-temporal query language**(Short Paper)

Gabriele Pozzani

-- **Schematron Schema Inference**(Full Paper)

Jakub Starka, Michal Kozak, Irena Mlynkova

-- **A constrained frequent pattern mining system for handling aggregate constraints**(Full Paper)

Carson K. Leung

Break 5

Date Time: 2012-08-10 From 10:20 To 10:45

Location: S5 - foyer

Session: **Data Models & Closing**

Date Time: 2012-08-10 From 10:45 To 12:10

Location: S5

Chair: Bipin C. Desai

-- **Stream-join Revisited in the Context of Epoch-based SQL Continuous Query**(Full Paper)

Qiming Chen, Meichun Hsu

-- **Autonomous Database Partitioning Using Data Mining on Single Computers and Cluster Computers**(Full Paper)

Liangzhe Li, Le Gruenwald

-- **DYMOND: An Active System for Dynamic Vertical Partitioning of Multimedia Databases**(Full Paper)

Lisbeth Rodriguez

Lunch 3

Date Time: 2012-08-10 From 12:15 To 13:45

Location: Restaurant Profesni dum

Guided Walking Tour:Prague

Walking Tour of Prague start at 14.00, August 10, 2012

We meet just before 14:00 in S7.

Date Time: 2012-08-10 From 14:00 To 17:00

Location: Meeting point: at 14.00 S7



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## IDEAS'13 Final Program

### Session: Opening

Welcome

Date Time: 2013-10-09 From 09:00 To 09:15

Location: Sala d'Actes

Chair: Josep L Larriba-pey

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

Date Time: 2013-10-09 From 09:15 To 10:45

Location: Sala d'Actes

Chair: Pedro Furtado

#### -- On-The-Fly Generation of Multidimensional Data Cubes for Web of Things(Full Paper)

Muntazir Mehdi, Ratnesh Sahay

#### -- Content-Based Annotation and Classification Framework: A General Multi-Purpose Approach(Full Paper)

Michal Batko, Jan Botorek, Petra Budikova

#### -- Breaking Skyline Computation down to the Metal - the Skyline Breaker Algorithm(Full Paper)

Dominik Köppl

### Session: Database Query Languages

Date Time: 2013-10-09 From 11:15 To 13:00

Location: Sala d'Actes

Chair: Guadalupe M Canahuate

#### -- Verification of k-Coverage on Query Line Segments(Full Paper)

En Tzu Wang, Arbee I.p. Chen

#### -- Evaluating Skyline Queries over Vertically Partitioned Tables(Short Paper)

José Rafael Subero Carrillo, Marlene Optional Goncalves

#### -- Personalized Progressive Filtering of Skyline Queries in High Dimensional Spaces(Short Paper)

Yann Loyer, Isma Sadoun, Karine Zeitouni

#### -- How to Exploit the Device Diversity and Database Interaction to Propose a Generic Cost Model(Short Paper)

Ladjel Bellatreche, Ahcene Boukorca, Jalil Boukhobza

#### -- DynamicNet: An Effective and Efficient Algorithm for Supporting Community Evolution Detection in Time-Evolving

#### Information Networks(Short Paper)

Alfredo Cuzzocrea, Francesco Folino

### Session: Access Methods and Data Structures

Date Time: 2013-10-09 From 14:15 To 15:45

Location: Sala d'Actes

Chair: Elio Masciari

#### -- On the Efficiency of Multiple Range Query Processing in Multidimensional Data Structures(Full Paper)

Peter Chovanec, Michal Krátky

#### -- Approximate High-Dimensional Nearest Neighbor Queries Using R-Forests(Full Paper)

Michael C Nolen, King-ip Lin

#### -- Top-k join queries: Overcoming the curse of anti-correlation(Full Paper)

Manish M Patil

### Session: Panel Session

Date Time: 2013-10-09 From 16:15 To 18:00

Location: Sala d'Actes

Chair: Alfredo Cuzzocrea

### Session: Keynote I

Matching Bounds for the All-Pairs MapReduce problem

Jeff Ullman

Date Time: 2013-10-10 From 09:00 To 10:00

Location: Sala d'Actes

Chair: Josep L Larriba-pey

#### -- Matching Bounds for the All-Pairs MapReduce Problem()

Jeffrey David Ullman, Foto N Afrati

### Session: Best Paper Lecture

Date Time: 2013-10-10 From 10:30 To 11:15

Location: Sala d'Actes

Chair: Jeffrey David Ullman

#### -- Efficiency and Precision Trade-Offs in Graph Summary Algorithms(Full Paper)

Stephane Campinas, Renaud Delbru

### Session: Data Warehousing, Integration

Date Time: 2013-10-10 From 11:15 To 12:45

Location: Sala d'Actes

Chair: Alfredo Cuzzocrea

-- **A Compact Representation for Efficient Uncertain-Information Integration(Full Paper)**

Fereidoon Sadri

-- **Near Real-Time with Traditional Data Warehouse Architectures: Factors and How-to(Full Paper)**

Nickerson Fonseca Ferreira, Pedro Furtado, Pedro Miguel Oliveira Martins

-- **Dynamic Bitmap Index Recompression through Workload-Based Optimizations(Full Paper)**

David Chiu, Jason Sawin, Gheorghii Guzun, Guadalupe M Canahuate

Session: Privacy and security in database

Date Time: 2013-10-10 From 14:00 To 15:45

Location: Sala d'Actes

Chair: Manish M Patil

-- **Load Balance for Semantic Cluster-based Data Integration Systems(Short Paper)**

Edemberg Rocha Da Silva, Guilherme Barros De Souza, Ana Carolina Salgado

-- **SVMAX: A System for Secure and Valid Manipulation of XML Data(Short Paper)**

Houari Mahfoud

-- **Querying data across different legal domains(Short Paper)**

Marco Taddeo, Danilo Montesi, Alberto Trombetta, Stefano Pierantozzi

-- **Sequential Pattern Mining from Trajectory Data(Short Paper)**

Elio Masciari

-- **Self-Managing Online Partitioner for Databases (SMOPD) – A Vertical Database Partitioning System with a Fully Automatic Online Approach(Short Paper)**

Liangzhe Li, Le Gruenwald

Session: Keynote II

LDBC: benchmark for graph and RDF data management

Peter Boncz

Date Time: 2013-10-11 From 09:00 To 10:00

Location: C6-E101 building C6

Chair: Jorge Bernardino

-- **LDBC: benchmarks for graph and RDF data management()**

Peter Boncz

Session: Access Methods and Data Structures - 2

Date Time: 2013-10-11 From 10:30 To 12:00

Location: C6-E101 building C6

Chair: David Dominguez-sal

-- **A hybrid page layout integrating PAX and NSM(Full Paper)**

Iliia Petrov

-- **Read Optimisations for Append Storage on Flash(Full Paper)**

Robert Gottstein, Iliia Petrov

-- **Cloudy: Heterogeneous middleware for in time queries processing(Full Paper)**

Pedro Miguel Oliveira Martins, Pedro Furtado

Session: Closing & CFP IDEAS14

Date Time: 2013-10-11 From 12:00 To 12:10

Location: C6-E101 building C6

Chair: Bipin C. Desai





## IDEAS 2014 Final Program

Registration Daily: 08:45 – 17:00

Chair: Bertil Marques

### Session: Opening

Date Time: 2014-07-07 From 09:15 To 09:30 Location: Auditório E

Chair: Ana Maria Almeida

### Session: Invited Talk 1:

Date Time: 2014-07-07 From 09:30 To 10:30 Location: Auditório E

Chair: Bipin C. Desai

- *Real Time Data Mining* João Gama

Coffee Break 1 Date Time: 2014-07-07 From 10:30 To 11:00

### Session: Privacy and security in database

Date Time: 2014-07-07 From 11:00 To 12:30 Location: Auditório E

Chair: Elsa Ferreira Gomes

-- *DARM: A Privacy-preserving Approach for Distributed Association Rules Mining on Horizontally-partitioned Data*(Full Paper)

Omar Abdel Wahab, Omar Hachami, Arslan Zaffar, Mery Vivas, Gaby G. Dagher

-- *The State of Data*(Full Paper)

Bipin C. Desai

-- *A Scheme for Privacy-Preserving Ontology Mapping*(Full Paper)

Toshiyuki Amagasa, Fan Zhang, Jun Sakuma, Hiroyuki Kitagawa

-- *Personalized Classifiers: Evolving a Classifier from a Large Reference Knowledge Graph*(Full Paper)

Ramakrishna B Bairi, Ganesh Ramakrishnan, Vikas Sindhwani

LUNCH 1 ISEP Restaurant

Date Time: 2014-07-07 From 12:30 To 13:30

### Session: Database Performance

Date Time: 2014-07-07 From 13:30 To 15:00 Location: Auditório E

Chair: Elio Masciari

- MV-IDX: Indexing in Multi-Version Databases(Full Paper)  
Robert Gottstein, Rohit Goyal, Iliia Petrov, Alejandro Buchmann, Sergej Hardock
  - *Improving MMDB Distributed Transactional Concurrency*(Full Paper)  
Weiwei Gong, Patrick Eugene O'Neil, Elizabeth O'Neil
  - *Optimizing Query Execution for Variable-Aligned Length Compression of Bitmap Indices*(Full Paper)  
Ryan Raymond Slechta, Jason Sawin, Ben Mccamish, David Chiu, Guadalupe M Canahuate
  - *Optimizing Database Index Performance for Solid State Drives*(Full Paper)  
Stephen Michael Ash, King-ip Lin
- Coffee Break 2 Date Time: 2014-07-07 From 15:00 To 15:30

### Session: Web mining

Date Time: 2014-07-07 From 15:30 To 17:00 Location: Auditório E

Chair: Alípio M. Jorge

- *Mining Named Entities from Search Engine Query Logs*(Full Paper)  
Areej Alasiry, Mark Levene, Alexandra Poulouvassilis
- *Named Entities as Privileged Information for Hierarchical Text Clustering*(Full Paper)  
Roberta Akemi Sinoara, Camila Vaccari Sundermann, Ricardo M Marcacini, Marcos Aurelio Domingues, Solange Oliveira Rezende
- *Multilevel refinement based on neighborhood similarity*(Full Paper)  
Alan Demetrius Baria Valejo, Jorge Carlos Valverde-rebaza, Brett Drury, Alneu De Andrade Lopes
- *Automatic Creation of Stock Market Lexicons for Sentiment Analysis Using StockTwits Data*(Full Paper)  
Nuno Rocha Oliveira, Paulo Cortez, Nelson Costa Areal

### Reception

Date Time: 2014-07-07 From 17:00 To 18:30

### Session: Invited Talk 2

Date Time: 2014-07-08 From 09:30 To 10:30 Location: Auditório E

Chair: Ana Maria Almeida

*Data Driven Approaches in 3D Graphics* Sudhir Mudur

Coffee Break 3 Date Time: 2014-07-08 From 10:30 To 11:30

### Session: Data Models

Date Time: 2014-07-08 From 11:00 To 12:30 Location: Auditório E

Chair: Jorge Bernardino

- *Ontology-based multi-domain metadata using Triple Stores*(Full Paper)  
João Rocha Da Silva, Cristina Ribeiro, João Correia Lopes
- *Condensed Representation of Frequent Itemsets*(Full Paper)

Daniel Serrano, Cláudia Antunes

-- *RSQL - A Query Language for Dynamic Data Types*(Full Paper)

Tobias Jäkel, Thomas Kühn, Hannes Voigt, Wolfgang Lehner

-- *A Method for Predicting Citations to the Scientific Publications of Individual Researchers*(Full Paper)

Peter Z. Revesz

Lunch 2 - ISEP Restaurant Date Time: 2014-07-08 From 12:30 To 13:30

### Session: Data Integration

Date Time: 2014-07-08 From 13:30 To 15:00 Location: Auditório E

Chair: Peter Z. Revesz

-- *Visual Data Integration based on Description Logic Reasoning*(Full Paper)

Loredana Caruccio, Vincenzo Deufemia, Giuseppe Polese

-- *Semantic Mediator Querying*(Full Paper)

Béatrice Bouchou, Cheikh Niang

-- *Discovering Domain-Specific Public SPARQL Endpoints: A Life-Sciences Use-Case*(Full Paper)

Muntazir Mehdi, Aftab Iqbal, Aidan Hogan, Ali Hasnain, Yasar Khan, Stefan Decker, Ratnesh Sahay

-- *Dealing with Incompleteness and Inconsistency in P2P Deductive Databases*(Full Paper)

Ester Zumpano, Luciano Caroprese

Coffee Break 4 Date Time: 2014-07-08 From 15:00 To 15:30

### Session: Cloud computing

Date Time: 2014-07-08 From 15:30 To 17:00 Location: Auditório E

Chair: Peter Mikulecky

-- *Survey on Open Source Platform-as-a-Service Solutions for Education*(Full Paper)

Pavel Kriz

-- *CloudETL: Scalable Dimensional ETL for Hive*(Full Paper)

Xiufeng Liu, Christian Thomsen, Torben Bach Pedersen

-- *A Methodology for Social BI*(Full Paper)

Matteo Francia, Matteo Golfarelli, Stefano Rizzi

-- *A Fragmented Data-declustering Strategy for High Skew Tolerance and Efficient Failure Recovery*(Full Paper)

Min Luo, Nam Dang, Haruo Yokota

Social Event: City tour, Boat Tour on the Duoro followed by Dinner

Date Time: 2014-07-08 From 17:00 To 23:30 Location: Porto, Duoro and Taylor's

### Session: Cloud computing - 2

Date Time: 2014-07-09 From 09:00 To 10:30 Location: Auditório E

**Chair: Alipio Jorge**

-- *Cloud Based Solution for Mobile Healthcare Application*(Short Paper)

**Richard Cimler, Vladimir Sobeslav, Jan Matyska**

-- *Statistics and Analysis of Service Availability in Cloud Computing*(Short Paper)

**Vladimir Sobeslav, Jakub Pavlik, Josef Horalek**

-- *Cloud-Based Solutions for Intelligent Environments*(Short Paper)

**Peter Mikulecky**

-- *Survey of Real-time Processing Systems for Big Data*(Short Paper)

**Xiufeng Liu, Nadeem Iftikhar, Xike Xie**

-- *Portable Decision Support System for Heart Failure Detection and Medical Diagnosis*(Short Paper)

**António Meireles, Lino Figueiredo, Luís Seabra Lopes, Ana Maria Almeida**

-- *A Novel Mechanism for Enhancing Software Transactional Memory*(Short Paper)

**Hoda M. O. Mokhtar, Nariman Adel Hussein**

### **Session: Web mining - 2**

**Date Time: 2014-07-09 From 09:00 To 10:30 Location: Sala de Atos**

**Chair: Elsa Ferreira Gomes**

-- *Integration of linguistic and web information to improve biomedical terminology extraction*(Short Paper)

**Juan Antonio Lossio Ventura, Clement Jonquet, Mathieu Roche, Maguelonne Teisseire**

-- *Rapid prototyping of a web categorization tool*(Short Paper)

**Jaromír Navrátil, Luboš Popelínský**

-- *Design and Evaluation of a Twitter Hashtag Recommendation System*(Short Paper)

**Eriko Otsuka, Scott A Wallace, David Chiu**

-- *Ducky : A Data Extraction System for Various Structured Web Documents*(Short Paper)

**Kei Kanaoka, Yotaro Fujii, Motomichi Toyama**

-- *Adaptive Data Stream Mining for Wireless Sensor Networks*(Short Paper)

**Alfredo Cuzzocrea, Mohamed Medhat Gaber, Ary Mazharuddin Shiddiqi**

-- *Performance Evaluation of Database Replication Systems*(Short Paper)

**Rohit Madhukar Dhamane, Marta Patiño, Valerio Vianello , Ricardo Jimenez-peris**

**Coffee Break 5 Date Time: 2014-07-09 From 10:30 To 11:00**

### **Session: Crowdsensing**

**Date Time: 2014-07-09 From 11:00 To 12:30 Location: Auditório E**

**Chair: Luboš Popelínský**

-- *Investigating semantic regularity of human mobility lifestyle*(Short Paper)

**Vinicius Monteiro De Lira, Chiara Renso, Salvatore Rinzivillo, Valeria Cesario Times, Patricia Cabral Tedesco**

-- *Specifying Complex Correspondences between Relational Schemas and RDF Models for Generating Customized R2RML Mappings*(Full Paper)

Valéria Magalhães Pequeno, Vania Maria Ponte Vidal, Marco Antonio Casanova, Luis Eufrazio Teixeira Neto, Helena Galhardas

-- *A study of machine learning methods for detecting user interest during web sessions*(Full Paper)

Alípio M. Jorge, Sarab Singh Anand, José Paulo Leal

-- *Algebraic Optimization of Grouped Preference Queries*(Full Paper)

Markus Endres, Patrick Rooks, Werner Kießling

### Session: Database Issues

Date Time: 2014-07-09 From 12:30 To 14:00 Location: Foyer

-- *A State Machine for Database Non-functional Testing*(Poster)

Jorge Augusto Meira, Eduardo Cunha De Almeida, Yves Le Traon

-- *Intra-query Adaptivity for MapReduce Query Processing Systems*(Poster)

Edson Ramiro Lucas Filho, Eduardo Cunha De Almeida, Yves Le Traon

-- *Open Source Business Intelligence in Manufacturing*(Poster)

Eduardo Jesus, Jorge Bernardino

-- *Heart Sounds Classification using Motif based Segmentation*(Poster)

Soraia Cruz Oliveira, Elsa Ferreira Gomes, Alípio M. Jorge

-- *The Influence of Social Data on Student Success Prediction*(Poster)

Hana Bydžovská, Luboš Popelínský

-- *Challenges in computing semantic relatedness for large semantic graphs*(Poster)

Teresa Costa, José Paulo Leal

-- *Music Classification Method based on Lyrics for Music Therapy Support*(Poster)

Mizuki Furuya, Hung-Hsuan HUANG, Kyoji Kawagoe

-- *An Overview of Openstack Architecture*(Poster)

Tiago André Rosado, Jorge Bernardino

-- *Poster Ideas City logistics\_Analyzing the impact of different public policies in the Oporto city*(Poster)

Norberto Leite Bessa, Dalila B.m.m. Fontes

Lunch 3 - ISEP Restaurant and Posters Session

Date Time: 2014-07-09 From 12:30 To 14:00

### Session: Data Preparation and Mining

Date Time: 2014-07-09 From 14:00 To 15:20 Location: Auditório E

Chair: Pedro Rangel Henriques

-- *Applications of Spatio-Temporal Data Mining to North Platter River Reservoirs*(Short Paper)

Abhinaya Mohan, Peter Z. Revesz

-- *Innovative Power Operating Center Management Exploiting Big Data Techniques*(Short Paper)

Michelangelo Ceci, Nunziato Cassavia, Roberto Corizzo, Pietro Dicosta, Donato Malerba, Gaspare Maria, Elio Masciari, Camillo Pastura

-- *Express Execution Lines and Execution Time Estimation*(Short Paper)

Rogério Luís De C. Costa, Pedro Furtado

-- *A Scheme of Automated Object and Facet Extraction for Faceted Search over XML*

*Data*(Short Paper)

Takahiro Komamizu, Toshiyuki Amagasa, Hiroyuki Kitagawa

-- *Reo on ETL Patterns Conceptualization*(Short Paper)

Bruno Oliveira, Orlando Belo

-- *Experimental Evaluation of Similarity Measures for Uncertain Time Series*(Short Paper)

Mahsa Orang, Nematollaah Shiri

### Session: Business Applications

Date Time: 2014-07-09 From 14:00 To 15:30 Location: Auditório E

Chair: Ana Azevedo

-- *A machine learning approach for stock price prediction*(Short Paper)

Carson K. Leung, Richard Kyle Mackinnon, Yang Wang

-- *Business Intelligence in Maternity Care*(Short Paper)

Eliana Pereira, Andreia Brandão, Filipe Portela, Manuel Filipe Santos, José Machado, António Abelha

-- *Classifying Heart Sounds using SAX Motifs, Random Forests and Text Mining techniques*(Short Paper)

Elsa Ferreira Gomes, Alípio M. Jorge, Paulo Jorge Azevedo

-- *A 2D based Partition Strategy for Solving RTC Problem*(Short Paper)

Xiaolu Lu, Xiang Li, Dongxu Li, Ling Feng

-- *Adaptive Lidar Grid Filtering and Utilization in the Automated Photorealistic Surface Modelling*(Short Paper)

Jan Hovad, Jitka Komárková

-- *Heterogeneous Sensor Data Integration for Crowdsensing Applications*(Short Paper)

Sebastián Villarroya, David Martínez Casas, Moisés Vilar, José Ramón Ríos Viqueira, José ángel Taboada, José Manuel Cotos

### Session: Closing

Date Time: 2014-07-09 From 15:30 To 15:45 Location: Auditório E

Chair: Jorge Bernardino

Panel: Ana Maria Almeida, Bipin C. Desai, Elsa Ferreira Gomes

IDEAS2015

Coming in 2015!



Current Event: IDEAS>IDEAS15 including IDEAS15P(Grad. Posters)

## 1 Conference Program

To see the abstract for a paper, please click on its title.

### Registration 1

Date Time: 2015-07-13 From 09:00 To 16:00

Location:

### Session: Opening

Prof. Kitagawa

Date Time: 2015-07-13 From 10:30 To 11:00

Location: Large conference room (2nd floor)

Chair: Motomichi Toyama

### Coffee 1

Date Time: 2015-07-13 From 11:00 To 11:20

Location:

### Session: Big Data and applications

Date Time: 2015-07-13 From 11:30 To 13:00

Location: Large conference room (2nd floor)

Chair:

-- [TDV-based Filter for Novelty and Diversity in a Real-time Pub/Sub System\(Full Paper\)](#) -- [speaker info](#) ,[slide](#)

Zeinab Hmedeh, Cedric Du Mouza, Nicolas Travers

-- [Utilizing a NoSQL Data Store for Scalable Log Analysis\(Full Paper\)](#) -- [speaker info](#) ,[slide](#)

Khalid Mahmood, Tore Risch, Minpeng Zhu

-- [Technological Singularities\(Full Paper\)](#) -- [speaker info](#) ,[slide](#)

Bipin C. Desai

### Lunch 1

Date Time: 2015-07-13 From 13:00 To 14:00

Location:

### Session: Data Integration

Date Time: 2015-07-13 From 14:00 To 15:30

Location: Large conference room (2nd floor)

Chair:

-- [Declarative Data Exchange: Spreadsheets to RDF/OWL\(Full Paper\)](#) -- [speaker info](#)

Michael Compton, David Ratcliffe, Yanfeng Shu, Geoffrey Squire

-- [Propagating Dependencies under Schema Mappings -- A Graph-based Approach\(Full Paper\)](#) -- [speaker info](#) ,[slide](#)

Qing Wang, Xi Wen

-- [A Security-assured Accuracy-maximised Privacy Preserving Collaborative Filtering Recommendation Algorithm\(Full Paper\)](#) -- [speaker info](#) ,[slide](#)

Zhigang Lu, Hong Shen

### Coffee 2

Date Time: 2015-07-13 From 15:30 To 16:00

Location:

### Session: Database Applications

Date Time: 2015-07-13 From 16:00 To 17:00

Location:

Chair:

-- [UP-Hist Tree: An Efficient Data Structure for Mining High Utility Patterns from Transaction Databases\(Full Paper\)](#) -- [speaker info](#) ,[slide](#)

Siddharth Dawar, Vikram Goyal

-- [Vishleshan: Performance Comparison and Programming Process Mining Algorithms in Graph-Oriented and Relational Database Query Languages\(Short Paper\)](#) -- [speaker info](#) ,[slide](#)

Jeevan Joishi, Ashish Sureka

-- [A Data Mining-based Blocks Placement Optimisation for Distributed Data Warehouses\(Full Paper\)](#) -- [speaker info](#) ,[slide](#)

Arres Billel, Nadia Kabachi, Omar Boussaid, Fadila Bentayeb

### Reception

Date Time: 2015-07-13 From 17:15 To 20:00

Location: TBA

### Registration 2

Date Time: 2015-07-14 From 09:30 To 15:00

Location: TBA

### Session: Keynote Talk

Task Assignment in Crowdsourcing and its Relationship to Composite Item Retrieval and Team Formation: Sihem Amer-Yahia

Date Time: 2015-07-14 From 10:00 To 11:30  
 Location: Large conference room (2nd floor)  
 Chair: Motomichi Toyama

#### Coffee 3

Date Time: 2015-07-14 From 11:30 To 12:00  
 Location: TBA

#### Session: Data Mining, OLAP, and Knowledge Discovery - 1

Date Time: 2015-07-14 From 12:00 To 13:00  
 Location:  
 Chair:

- [Use case study of HDD-SSD hybrid storage, distributed storage and HDD storage on OpenStack\(Poster\)](#) -- speaker info ,slide  
 Yoji Yamato
- [Continuous Angle-based Outlier Detection on High-dimensional Data Streams\(Short Paper\)](#) -- speaker info ,slide  
 Hao Ye, Hiroyuki Kitagawa, Jun Xiao
- [Text Extraction and Recognition from Posters for Movie Title Retrieval\(Short Paper\)](#) -- speaker info ,slide  
 Yin-fu Huang, Min-chang Hsieh
- [Mining Domain Information from Social Contents Based on News Categories\(Short Paper\)](#) -- speaker info ,slide  
 Yin-fu Huang, Chen-ting Huang

#### Lunch 2

Date Time: 2015-07-14 From 13:00 To 14:00  
 Location: TBA

#### Session: Query Processing and Query Optimization

Date Time: 2015-07-14 From 14:00 To 15:30  
 Location: Large conference room (2nd floor)  
 Chair:

- [Towards Archiving-as-a-Service: A Distributed Index for the Cost-effective Access to Replicated Multi-Version Data\(Full Paper\)](#) -- speaker info ,slide  
 Filip-Martin Brinkmann, Heiko Schuldt
- [Asymptotic-Efficient Algorithms for Skyline Query Processing over Uncertain Contexts\(Full Paper\)](#) -- speaker info ,slide  
 Jiping Zheng, Yongge Wang, Haixiang Wang, Wei Yu
- [Automatic vs. Crowdsourced Sentiment Analysis\(Full Paper\)](#) -- speaker info ,slide  
 Ria Mae Borromeo, Motomichi Toyama

#### Session: Coffee 4

Date Time: 2015-07-14 From 15:30 To 16:00  
 Location: TBA  
 Chair:

#### Session: Data Quality and Semantics

Date Time: 2015-07-14 From 16:00 To 17:00  
 Location: Large conference room (2nd floor)  
 Chair:

- [Query Processing Optimization using Two Types of Storage Devices\(Short Paper\)](#) -- speaker info ,slide  
 Takamitsu Shioi, Kenji Hatano
- [The Synonym Processing Mechanism in Web Index\(Short Paper\)](#) -- speaker info ,slide  
 Shiori Ikuta, Motomichi Toyama
- [A logic based approach to deal with Incompleteness and Inconsistencies in P2P Deductive Databases\(Short Paper\)](#) -- speaker info ,slide  
 Luciano Caroprese, Ester Zumpano

#### Tour and Dinner

Date Time: 2015-07-14 From 17:00 To 22:00  
 Location: TBA

#### Registration 3

Date Time: 2015-07-15 From 09:45 To 13:00  
 Location: TBA

#### Session: Remote - IDEAS - C3S2E

Date Time: 2015-07-15 From 10:00 To 13:00  
 Location: Large conference room (2nd floor)  
 Chair:

- [Profile resolution across multilayer networks through smartphone camera fingerprint\(Full Paper\)](#) -- speaker info ,slide  
 Flavio Bertini, Rajesh Sharma, Andrea Ianni, Danilo Montesi
- [Achieving Consistent Storage for Scalable MMORPG Environments\(Full Paper\)](#) -- speaker info ,slide  
 Ziqiang Diao, Pengfei Zhao, Eike Schallehn, Siba Mohammad
- [Big Data Techniques For Supporting Accurate Predictions of Energy Production From Renewable Sources\(Full Paper\)](#) -- speaker info ,slide  
 Michelangelo Ceci, Roberto Corizzo, Fabio Fumarola, Michele Ianni, Donato Malerba, Gaspare Maria, Elio Masciari, Marco Oliverio, Aleksandra Rashkovska
- [Shortest Average-Distance Query on Heterogeneous Neighboring Objects\(Full Paper\)](#) -- speaker info ,slide  
 Yuan-ko Huang, Wu-Hsiu Kuo, Chiang Lee, Tzu-Hsien Wang
- [A new QoS Management Approach in real-time GIS with heterogeneous real-time geospatial data using a feedback control scheduling\(Short Paper\)](#) -- speaker info ,slide  
 Sana Hamdi, emna Bouazizi, Sami FAIZ
- [Data Mining Citation Databases: A New Index Measure that Predicts Nobel Prizewinners\(Full Paper\)](#) -- speaker info



,slide

Peter Z. Revesz

-- **An Empirical Method for Discovering Tax Fraudsters: A Real Case Study of Brazilian Fiscal Evasion(Full Paper)** --  
[speaker info](#) ,[slide](#)

Tales Matos, Jose Antonio F De Macedo, Jose Maria Monteiro

Session: Database Query Languages

Date Time: 2015-07-15 From 10:00 To 13:00

Location: TBA

Chair:

- **Web-based Intuitive Management of RMX(Poster)** -- [speaker info](#)  
Moeko Deguchi, Kazuto Kita, Motomichi Toyama
- **Supporting Tools for Creating SuperSQL Queries(Poster)** -- [speaker info](#)  
Kengo Haruno, Yusuke Hoshino, Kento Goto, Motomichi Toyama
- **Generating Desktop and Mobile Web Pages from a Single SuperSQL Query(Poster)** -- [speaker info](#)  
Kento Goto, Ryosuke Koshijima, Motomichi Toyama
- **GENERATE eHTML: Embedding SuperSQL Queries in HTML(Poster)** -- [speaker info](#)  
Masato Kiya, Kento Goto, Motomichi Toyama
- **Correlation analysis among the metadata-based similarity,acoustic-based distance,and serendipity of music(Poster)**  
-- [speaker info](#)  
Naoki Kito, Kenta Oku, Kyoji Kawagoe
- **A Data Retrieval Model Based on Independence Rules for SuperSQL(Poster)** -- [speaker info](#)  
Arnaud Wolf, Ria Mae Borrromeo, Motomichi Toyama
- **RMX: The Architecture of Rule-based Mailing System(Poster)** -- [speaker info](#)  
Yohei Matsumoto, Satoru Matsuzawa, Motomichi Toyama
- **Effective Web Data Extraction with Ducky(Poster)** -- [speaker info](#)  
Kei Kanaoka, Motomichi Toyama
- **Preventing Spam Email by Delivery Limitation in RMX(Poster)** -- [speaker info](#)  
Hiromu Ando, Motomichi Toyama
- **An Experimental Study of Aging Influence on Query Cost estimation(Poster)** -- [speaker info](#)  
Chihiro Kato, Yuto Hayamizu, Kazuo Goda, Masaru Kitsuregawa
- **Parametric Learning of Deep Convolutional Neural Network(Poster)** -- [speaker info](#) ,[slide](#)  
Rui Zhong, Taro Tezuka
- **Automatic Determination of Hyperlink Destination in Web Index(Poster)** -- [speaker info](#)  
Yosuke Aoki, Ryosuke Koshijima, Motomichi Toyama
- **Big Data Issues(Poster)** -- [speaker info](#) ,[slide](#)  
Pedro Caldeira Neves, Jorge Bernardino
- **What is BigQuery?(Poster)** -- [speaker info](#) ,[slide](#)  
Sergio Fernandes, Jorge Bernardino
- **Supporting Web Content Development using Web Index(Poster)** -- [speaker info](#)  
Tomoya Sakusa, Motomichi Toyama

Lunch 3

Date Time: 2015-07-15 From 13:00 To 14:00

Location: Faculty Lounge

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## IDEAS 2016 Program

### Registration & Welcome : Bipin C. Desai

Date Time: 2016-07-11 From 08:45 To 16:00

Location: EV2-184 (Room for prep and conversations)

### Keynote: Dr. Oszu

Dr. M. Tamer Oszu

Web Data Management in the RDF Age

Date Time: 2016-07-11 From 09:30 To 10:30

Location: EV2-260/238

Chair: Motomichi Toyama

### -- Web Data Management in the RDF Age

M. Tamer Oszu

### Morning break

Date Time: 2016-07-11 From 10:30 To 11:00

Location: EV2-184 (Room for prep and conversations)

### Data Mining, OLAP, and Knowledge Discovery

Date Time: 2016-07-11 From 11:00 To 12:30

Location: EV3-309

Chair: Christie Ijeoma Ezeife

### -- Modern Web Pages Generation by Using Exclusively SuperSQL(Short Paper)

Kengo Haruno, Kento Goto, Motomichi Toyama

### -- Clickstream prediction using sequential stream mining techniques with Markov chains(Full Paper)

Shelby D Bernhard, Carson K. Leung, Vanessa Reimer, Josh Westlake

### -- TPred: a Spatio-Temporal Location Predictor Framework(Full Paper)

Cleilton Rocha, Igo Ramalho Brillhante, Francesco Lettich, Jose Antônio Fernandes De Macedo, Alessandra Raffaeta, Rossana Andrade, Salvatore Orlando

### Query Processing and Query Optimization

Date Time: 2016-07-11 From 11:00 To 12:30

Location: EV2-260/238

Chair: Richard Mcclatchey

### -- A Big Data Approach For Querying Data in EHR Systems(Short Paper)

Nunziato Cassavia, Mario Ciampi, Giuseppe De Pietro, Elio Masciari

### -- JARS: Join-Aware Distributed RDF Storage(Short Paper)

Anjali Rajith, Shoji Nishimura, Haruo Yokota

### -- The Extraction from News Stories a Causal Topic Centred Bayesian Graph for Sugarcane.(Short Paper)

Brett Drury, Maria Fernanda Moura, Conceição Rocha, Alneu De Andrade Lopes

### -- Provenance Support for Biomedical Big Data Analytics(Short Paper)

Richard Mcclatchey, Jetendr Shamdassani, Andrew Branson

### Lunch

Date Time: 2016-07-11 From 12:30 To 13:30

Location: EV2.309

### Performance Evaluation

Date Time: 2016-07-11 From 13:30 To 15:00

Location: EV3-309

Chair:	Elio Masciari
-- <b>A Two-Phase MapReduce Algorithm for Scalable Preference Queries over High-Dimensional Data(Full Paper)</b> Gheorghii Guzun, Guadalupe M Canahuate, David Chiu -- <b>Optimizing Druid with Roaring bitmaps(Full Paper)</b> Samy Chambi, Daniel Lemire, Robert Godin, Kamel Boukhalfa, Charles R Allen, Fangjin Yang -- <b>Software Analytics in Practice: A Defect Prediction Model Using Code Smells(Full Paper)</b> Behjat Soltanifar, Shirin Akbarinasaji, Bora Caglayan, Ayse Bener, Asli Filiz, Bryan M Kramer, Ayse Tosun	
<b>Afternoon break</b>	
Date Time:	2016-07-11 From 15:00 To 15:30
Location:	EV2-184 (Room for prep and conversations)
<b>Database Performance</b>	
Date Time:	2016-07-11 From 15:30 To 16:30
Location:	EV3-309
Chair:	Jaroslav Pokorny
-- <b>Lazy Evaluation for Concurrent OLTP and Bulk Transactions(Full Paper)</b> Lesley Wevers, Marieke Huisman, Maurice van Keulen -- <b>Using Histograms for Skyline Size Estimation(Full Paper)</b> Nicolas Hanusse, Patrick Kamnang Wanko, Sofian Maabout	
<b>Reception</b>	
Date Time:	2016-07-11 From 17:00 To 18:00
Location:	EV4.401
<b>Panel: The State of Data</b>	
Bonenfant, Desai, Fung, Ozsu, Ullman	
Panel: The State of Data	
Date Time:	2016-07-11 From 18:30 To 20:00
Location:	EV1-605
Chair:	Amir Asif
-- <b>Panel: The State of Data</b> Maude Bonenfant, Drew Desai, Benjamin C. M. Fung, M. Tamer Ozsu, Jeffrey David Ullman Moderator: Amir Asif	
<b>Registration</b>	
Date Time:	2016-07-12 From 09:00 To 16:00
Location:	EV2-184 (Room for prep and conversations)
<b>Keynote Dr. Ullman</b>	
Dr. Jeffrey D. Ullman	
Computing Marginals Using MapReduce	
Date Time:	2016-07-12 From 09:30 To 10:30
Location:	EV2-260/238
Chair:	Gosta Grahne
-- <b>Computing Marginals Using MapReduce</b> Foto N Afrati, Shantanu Sharma, Jeffrey David Ullman, Jonathan Robert Ullman	
<b>Morning break</b>	
Date Time:	2016-07-12 From 10:30 To 11:00
Location:	EV2-184 (Room for prep and conversations)
<b>Big Data and applications</b>	
Date Time:	2016-07-12 From 11:00 To 12:30
Location:	EV3-309

Chair:	Motomichi Toyama
<b>-- An Innovative Approach for Effectively and Efficiently Supporting Big Data Analytics over Geo-Located Mobile Social Media(Full Paper)</b> Alfredo Cuzzocrea, Giuseppe Psaila, Maurizio Toccu	
<b>-- Improved pre-processing for GraphChi parallel sliding windows using Fast Radix Sort(Full Paper)</b> Stuart Thiel, Gregory Butler, Larry Thiel	
<b>-- DynamicDFEP: A Distributed Edge Partitioning Approach for Large Dynamic Graphs(Full Paper)</b> Chayma Sakouhi, Sabeur Aridhi, Alessio Guerrieri, Salma Sassi, Alberto Montresor	
<b>Lunch</b>	
Date Time:	2016-07-12 From 12:30 To 13:30
Location:	EV2.309
<b>Access Methods and Data Structures</b>	
Date Time:	2016-07-12 From 13:30 To 15:00
Location:	EV3-309
Chair:	Haruo Yokota
<b>-- The Hilbert PDC-tree: A High-Velocity Structure for Many-Dimensional Data(Full Paper)</b> David Edward Robillard, Frank Dehne, Andrew Rau-chaplin, Neil Burke	
<b>-- The Influence of Crowd Type and Task Complexity on Crowdsourced Work Quality(Full Paper)</b> Ria Mae Borromeo, Motomichi Toyama, Thomas Laurent	
<b>-- Data on the move and Issues of Privacy and security(Full Paper)</b> Jianhui Zhu, Xichen Zhou, Bipin C. Desai	
<b>Afternoon break</b>	
Date Time:	2016-07-12 From 15:00 To 15:30
Location:	EV2-184 (Room for prep and conversations)
<b>XML Languages, Models, and Middleware</b>	
Date Time:	2016-07-12 From 15:30 To 16:30
Location:	EV3-309
Chair:	Jaroslav Pokorny
<b>-- Predicting SQL Query Execution Time for Large Data Volume(Short Paper)</b> Rekha Singhal, Manoj Nambiar	
<b>-- On computing temporal functions for a time-dependent networks using trajectory data(Short Paper)</b> Samara Martins Nascimento, Mirla R. R. Braga Chucre, Jose Antônio Fernandes De Macedo, Jose Monteiro, Marco Antonio Casanova	
<b>-- Enriching Mobility Data with Linked Open Data(Full Paper)</b> Livia Couto Ruback, Marco Antonio Casanova, Alessandra Raffaeta, Chiara Renso, Vania Vidal	
<b>MMFA/MBAM</b>	
Date Time:	2016-07-12 From 17:00 To 18:00
Location:	MMFA/MBAM 1380 rue Sherbrooke Ouest
<b>Boutique MMFA</b>	
Special late opening of the boutique for IDEAS'16 to spend your gift certificate!	
Date Time:	2016-07-12 From 18:00 To 19:00
Location:	Boutique MMFA
<b>Dinner</b>	
Date Time:	2016-07-12 From 19:15 To 21:30
Location:	The Atwater Club, 3503 Ave. Atwater. Montreal
<b>Registration</b>	
Date Time:	2016-07-13 From 08:55 To 16:00
Location:	EV2-184 (Room for prep and conversations)

## Data Mining, OLAP, and Knowledge Discovery - 2

Date Time:	2016-07-13 From 09:00 To 10:30
Location:	EV3-309
Chair:	Christie Ijeoma Ezeife

- **Mobile Web Application Generation Features for SuperSQL(Short Paper)**  
Kento Goto, Motomichi Toyama
- **The Twitter Bullishness Index: A Social Media Analytics Indicator for the Stock Market(Poster)**  
Carl Julien Barrelet, Sebnem Sahin Kuzulugil, Ayse Bener
- **Comparative Mining of B2C Web Sites by Discovering Web Database Schemas(Full Paper)**  
Christie Ijeoma Ezeife, Bindu Peravali
- **Enhanced variational approach by Fast-Marching to recover a 3D shape from shading(Full Paper)**  
Lyes Abada, Saliha Aouat

## Privacy and security

Date Time:	2016-07-13 From 09:00 To 10:30
Location:	EV2-260/238
Chair:	Hasan Jamil

- **A New Approach to Preserving Data Privacy in the Cloud(Short Paper)**  
Eliseu C Branco Jr, José Maria Monteiro, Javam Machado, Roney Reis Castro E Silva
- **Secure and Efficient Multiparty Computation on Genomic Data(Short Paper)**  
Md Momin Al Aziz, Mohammad Zahidul Hasan, Noman Mohammed, Dima Alhadidi
- **A Deterministic Model for P2P Deductive Databases(Short Paper)**  
Ester Zumpano, Luciano Caroprese
- **Valet SADI: Provisioning SADI Web Services for Semantic Querying of Relational Databases(Short Paper)**  
Mohammad Sadnan Al Manir, Alexandre Riazanov, Harold Boley, Artjom Klein, Christopher Baker

## Morning break

Date Time:	2016-07-13 From 10:30 To 11:00
Location:	EV2-184 (Room for prep and conversations)

## Data Mining, OLAP, and Knowledge Discovery - 3

Date Time:	2016-07-13 From 11:00 To 12:30
Location:	EV2-260/238
Chair:	Carson K. Leung

- **Conceptual and Database Modelling of Graph Databases(Short Paper)**  
Jaroslav Pokorny
- **A new scalable aggregation scheme for fuzzy clustering Taking unstructured textual resources as a case(Short Paper)**  
Choukri Djellali, Mehdi Adda
- **A Large-Scale Study of Online Shopping Behavior(Short Paper)**  
Soroosh Nalchigar, Ingmar Weber, Parisa Lak, Ayse Bener
- **CUTiS\*: optimized online Clustering of Trajectory data Stream(Short Paper)**  
Ticiana Linhares Coelho Da Silva, Karine Zeitouni, Jose Antônio Fernandes De Macedo, Marco Antonio Casanova
- **The Butterfly: An Intelligent Framework for Violation Prediction within Business Processes(Short Paper)**  
Raef Mousheimish, Yehia Taher, Karine Zeitouni

## Big Data and applications - 2

Date Time:	2016-07-13 From 11:00 To 12:30
Location:	EV3-309
Chair:	Christopher Baker

- **Efficient Approximate OLAP Querying Over Time Series(Short Paper)**  
Kasun S Perera, Martin Hahmann, Wolfgang Lehner, Torben Bach Pedersen, Christian Thomsen
- **How, Who and When: Enhancing Business Process Warehouses By Graph Based Queries(Short Paper)**  
Bettina Fazzinga, Sergio Flesca, Filippo Furfaro, Elio Masciari, Luigi Pontieri, Chiara Pulice

-- **Hierarchical Crowd Curation of Very Large and Predicted Protein-Protein Interaction Data(Short Paper)**

Hasan Jamil, Fereidoon Sadri

-- **Visual Spatial-OLAP for Vehicle Recorder Data on Micro-sized Electric Vehicles(Short Paper)**

Takahiro Komamizu, Toshiyuki Amagasa, Hiroyuki Kitagawa

**Lunch**

Date Time: 2016-07-13 From 12:30 To 13:30

Location: EV2.309

**Data Models**

Date Time: 2016-07-13 From 13:30 To 15:00

Location: EV3-309

Chair: Hasan Jamil

-- **Ontology-Based Data Integration System for Conservation-Restoration Data (OBDIS-CR)(Short Paper)**

Cheikh Niang, Béatrice Bouchou, Clauida Marinica, Elise Leboucher, Luc Bouiller, Christine Capderou

-- **A Case Study of the Aggregation Query Model in Read-Mostly NoSQL Document Stores(Short Paper)**

Diego Pasqualin, Eduardo Luis Buratti, Giovanni Souza, Eduardo Cunha De Almeida, Marcos Didonet Del Fabro, Daniel Weingaertner

-- **Performance Evaluation of NoSQL Multi-Model Data Stores in Polyglot Persistence Applications(Short Paper)**

Fabio Roberto Oliveira, Luis Mariano Del Val Cura

-- **SCI-F: Social-Corporate Data Integration Framework(Short Paper)**

Abla Lotfy Allam, Neamat El Tazi, Neveen Elgamal

**Misc – Remote**

This 'session' would take place 'off-line'. The authors are requested to upload their presentation with audio and provide a contact; both email and be willing to have a conversation either by email or arrange for some form of chat with interested attendees of IDEAS2016 in the next few days.

Only the attendees of IDEAS2016 would have access to these uploaded presentations.

Date Time: 2016-07-13 From 13:30 To 15:00

Location: EV2-260/238:

Chair: Bipin C. Desai

-- **Enhancing applications with filtering of XML message streams(Short Paper)**

Kirill Belyaev, Indrakshi Ray

-- **A new XML schema based on type dependencies(Poster)**

Jia Liu, Husheng Liao

-- **Mintra: Mining anonymized trajectories with annotations(Full Paper)**

Anuj Shanker Saxena, Vikram Goyal, Debajyoti Bera

-- **On the Discovery of Relaxed Functional Dependencies(Full Paper)**

Loredana Caruccio, Vincenzo Deufemia, Giuseppe Polese

-- **XML Type Dependency and XML Type Normal Form(Short Paper)**

Jia Liu, Husheng Liao

-- **A Scientist's Impact over Time: The Predictive Power of Clustering with Peers(Short Paper)**

Antonia Gogoglou, Antonis Sidiropoulos, Dimitrios Katsaros, Yannis Manolopoulos

-- **Introducing a New Arabic Endpoint for DBpedia Internationalization Project(Short Paper)**

Ahmed Salama Ismail, Haytham Tawfik Al-Feel, Hoda M. O. Mokhtar

-- **Content-preserving Text Watermarking through Unicode Homoglyph Substitution(Full Paper)**

Stefano Giovanni Rizzo, Flavio Bertini, Danilo Montesi

-- **Extension of Semantic Generalization for Considering a Class-Lattice(Short Paper)**

Teruhisa Hochin, Hiroki Nomiya

-- **Optimization of a Class of Temporal Queries(Short Paper)**

Manel Charfi, Yann Gripay, Jean-Marc Petit

**Afternoon break - Good bye** Bipin C. Desai

Date Time: 2016-07-13 From 15:00 To 16:00

Location:

EV2-184 (Room for prep and conversations)

## IDEAS 2017 Revised Final Program – post meeting

### Session: Sign -up and social program

The sign-in for the meeting will be on site in 2Q48 from 8.30am on-wards each day. 2Q48 which is in Q Block (level 2) of UWE Frenchay campus. All event will be in 2Q48/2Q49.

UWE campus maps can be found at [www.uwe.ac.uk](http://www.uwe.ac.uk) and IDEAS17 static page.

Breakfasts for those staying in the Student residency will be served from 8.00am on 12th, 13th & 14th in 2Q48 along with tea & coffees for all delegates.

All Ideas2017 sessions will be in the large lecture room 2Q49. All coffee breaks will be in 2Q48. Reception and lunches will probably be in R Block cafe area, and will be posted in the registration area.

Departure by coach for dinner on the 13th July will be outside Q Block at 5.30pm. The coach will drop the participants back after a harbour boat trip (6-7pm) and dinner (7.30-9.30pm) by about 10pm.

Conference will conclude by lunchtime on 14th and delegates will depart with a grab bag lunch from 2Q48.

**Date Time:** 2017-07-12 From 08:00 To 17:00

### Session: Welcome

Welcome by Professor Paul Olomolaiye  
Pro Vice Chancellor & Executive Dean  
Faculty of Environment and Technology (FET)

**Date Time:** 2017-07-12 From 09:00 To 09:15

**Location:** 2Q49

**Chair:** Richard Mcclatchey

### Session: Keynote 1

Keynote talk: Omer Rana  
Professor of Performance Engineering  
School of Computer Science and Informatics, Cardiff University

**Title:** Edge Clouds: Architectures and Deployment Models

**Date Time:** 2017-07-12 From 09:15 To 10:15

**Location:** 2Q49

**Chair:** Richard Mcclatchey

-- **Edge Clouds: Architectures and Deployment Models(Invited Keynote Talk)**

Omer Rana



## Morning break 1

Date Time: 2017-07-12 From 10:15 To 10:45

### Session: Distributed and Parallel Databases

Date Time: 2017-07-12 From 10:45 To 12:15

Location: 2Q49

Chair: Jun Hong

- [Exploring Deletion Strategies for the BoND-Tree in Multidimensional Non-ordered Discrete Data Spaces\(Full Paper\)](#)  
Ramblin Cherniak, Qiang Zhu, Yarong Gu, Sakti Pramanik
- [Quantifying Eventual Consistency For Aggregate Queries\(Full Paper\)](#)  
Neil Burke, Frank Dehne, Andrew Rau-chaplin, David Edward Robillard

## Session: Lunch 1

Date Time: 2017-07-12 From 12:15 To 13:30

### Session: Smart Cities and Urban Data Analytics

Date Time: 2017-07-12 From 13:30 To 15:00

Location: 2Q49

Chair: Zaheer Khan

- [Using a Model-driven Approach in Building a Provenance Framework for Tracking Policy-making Processes in Smart Cities\(Full Paper\)](#) [speaker info](#)  
Barkha Javed, Zaheer Khan, Richard McClatchey
- [Rapid automatic vehicle manufacturer recognition using Random forest\(Full Paper\)](#)  
Jan Sedláč, Luboš Popelínský
- [The SusCity Big Data Warehousing Approach for Smart Cities\(Full Paper\)](#)  
Carlos Costa, Maribel Yasmina Santos

## Afternoon Break 1

Date Time: 2017-07-12 From 15:00 To 15:30

### Session: Database Applications

Date Time: 2017-07-12 From 15:30 To 17:00

Location: 2Q49

Chair: Bipin C. Desai

- [Defining Similarity Spaces for Large-Scale Image Retrieval Through Scientific Workflows\(Full Paper\)](#)  
Luis Fernando Milano Oliveira, Daniel Dos Santos Kaster
- [RTA: A Framework for the Integration of Local and Relational Open Data\(Full Paper\)](#)  
Yusuke Kosaka, Shu Murakami, Thomas Laurent, Kento Goto, Motomichi Toyama
- [Efficient Evaluation of Shortest Average Distance Query on Heterogeneous Neighboring Objects in Road Networks\(Full Paper\)](#)  
Yuan-ko Huang, Chun Hsing Su, Chiang Lee, Chu Hung Ho

## Reception

Date Time: 2017-07-12 From 17:30 To 19:00

### Session: Keynote 2

Keynote talk: Jiawei Han

Abel Bliss Professor, Department of Computer Science, University of Illinois at Urbana-Champaign

Title: Mining Structures from Massive Text Data: A Data-Driven Approach

Date Time: 2017-07-13 From 09:00 To 10:00

Location: 2Q49

Chair: Bipin C. Desai

-- **Mining Structures from Massive Text Data: A Data-Driven Approach(Invited Keynote Talk)**

Jaiwei Han

**Morning break 2**

Date Time: 2017-07-13 From 10:00 To 10:30

**Session: Big Data and Applications**

Date Time: 2017-07-13 From 10:30 To 12:00

Location: 2Q49

Chair: Kamran Munir

-- **DWAHP: Workload Aware Hybrid Partitioning and Distribution of RDF Data(Full Paper)**

Trupti Padiya, Minal Bhise

-- **Evaluating SQL-on-Hadoop for Big Data Warehousing on Not-So-Good Hardware(Full Paper)**

Maribel Yasmina Santos, Carlos Costa, João Galvão, Carina Andrade, Bruno Augusto Martinho, Francisca Vale Lima, Eduarda Costa

-- **BDgen: A Universal Big Data Generator(Full Paper)**

Tomas Faltin, Michal Hanzeli, Vojtech Sipek, Jan Skvaril, Dusan Varis, Irena Holubova (mlynkova)

**Lunch 2**

Date Time: 2017-07-13 From 12:00 To 13:30

**Session: Privacy and Security**

Date Time: 2017-07-13 From 13:30 To 15:00

Location: 2Q49

Chair: Richard Mcclatchey

-- **IoT: Imminent ownership threat(Full Paper)**

Bipin C. Desai

-- **A Differentially Private Approach for Querying RDF Data of Social Networks(Full Paper)**

Roney Reis Castro E Silva, Bruno Carvalho Leal, Felipe Timbo Brito, Vania Maria Ponte Vidal, Javam Machado

-- **Secure Range Query Processing over Untrustworthy Cloud Services(Full Paper)**

Theodoros Tzouramanis

**Session: Afternoon Break 3**

Date Time: 2017-07-13 From 15:00 To 15:30

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

Parallel Session

Date Time: 2017-07-13 From 15:30 To 17:00

Location: 2Q49

Chair: Yoshiharu Ishikawa

-- **WFinger: a joint-decoder for very short Tardos fingerprinting codes(Full Paper)**

Bettina Fazzinga, Sergio Flesca, Filippo Furfaro, Elio Masciari

-- **Computing a Deterministic Semantics for P2P Deductive Databases(Full Paper)**

Luciano Caroprese, Ester Zumpano

-- **Extraction of Frequent Patterns Based on Users' Interests from Semantic Trajectories with Photographs(Full Paper)**

Yoshiaki Takimoto, Kento Sugiura, Yoshiharu Ishikawa

## Social event, Dinner

Date Time: 2017-07-13 From 17:00 To 21:00

## Session: Benchmarking and Performance

Date Time: 2017-07-14 From 09:00 To 10:35

Location: 2Q49

Chair: Motomichi Toyama

-- **Effective Big Data Visualization(Short Paper)**

Murali Mani, Si Fei

-- **Separation of Duties for Multiple Relations in Cloud Databases as an Optimization Problem(Full Paper)**

Ferdinand Bollwein, Lena Wiese

-- **Improving the Querying Efficiency of the PLWAH Bitmap Algorithm(Full Paper)**

Benjamin Taufen, Jason Sawin, David Chiu

## Morning break 3

Date Time: 2017-07-14 From 10:35 To 11:05

## Session: Data Mining and Information Extraction

Date Time: 2017-07-14 From 11:05 To 13:00

Location: 2Q49

Chair: Elio Masciari

-- **DiPCoDing: A Differentially Private Approach for Correlated Data with Clustering(Short Paper)**

Andre Luis Costa Mendonca, Felipe Timbo Brito, Leonardo Silva Linhares, Javam Machado

-- **Comparison of Dynamic Itemset Mining Algorithms for Multiple Items Support Thresholds(Short Paper)**

Belgin Ergenc Bostanoglu, Nourhan Nagee Abuzayed

-- **On the Implementation of an Algebra of Lightweight Ontologies(Full Paper)**

Rômulo Carvalho Magalhães, Marco Antonio Casanova, Bernardo Pereira Nunes, Giseli Rabello Lopes

-- **A Network-based Approach to Capture Provenance of a Policy-making Process(Short Paper)speaker info**

Barkha Javed, Zaheer Khan, Richard Mcclatchey

-- **LoRaWAN Bristol(Short Paper)**

Steve Battle, Benedict Gaster

## Lunch 3

Date Time: 2017-07-14 From 13:00 To 14:00

## Session: Au revoir/good-bye and Virtual Presentations

All no shows, for personal reasons or whatever, were required to have a presentation(voice over or video) and contact in the slide which they are supposed to upload; if uploaded by the deadline they are included in the proceedings. If not contact them, in the remote chance that you are interested in their papers.

At your convenience

Date Time: 2017-07-14 From 14:00 To 14:00

Location: On your desktop/laptop/notebook

-- **Analysis using spectral clustering to predict Internet gaming behaviours(Full Paper)**

Maya Samaha Rupert, Nazir S. Hawi

-- **Managing Data and Artifacts between Software Engineers and Artists: an ISSv2 Case Study(Full Paper)**

Serguei A. Mokhov, Miao Song, Amandeep Kaur, Mehak Talwar, Keerthana Gudavalli, Sudhir P. Mudur

-- **A New Temporal Abstraction for Health Diagnosis Prediction using Deep Recurrent Networks(Full Paper)**

Alireza Manashty, Janet Light

-- **Quality Awareness over Graph Pattern Queries(Full Paper)**

Philippe Rigaux, Virginie Thion

-- **Lightweight Encryption Algorithm Based on Modified XTEA for Low-Resource Embedded Devices(Full Paper)**

Sonia Kotel, Medien ZEGHID, Mohsen MACHHOUT, Rached TOURKI

-- **DyadChurn: Customer Churn Prediction using Strong Social Ties(Full Paper)**

Marwa Nabil Abd-allah, Samhaa Rafea ElBeltagy, Akram I Salah

-- **Towards Reliable Data Analyses for Smart Cities(Short Paper)**

Tiago Brasileiro Araújo, Cinzia Cappiello, Nadia Puchalski Kozievitch, Demetrio Gomes Mestre, Carlos Eduardo Santos Pires, Monica Vitali

-- **Quantification of time in Digital Libraries: Temporal Zipf's law(Full Paper)**

Stefano Giovanni Rizzo, Danilo Montesi

## Session: NO SHOWS

These are authors who did not notify the organizers of their non-participation; and if they did, they waited till the last minute.

Date Time: 2099-12-31 From 22:55 To 22:55

Location: In never-never land

- **Social Media Mining: Prediction of Box Office Revenue(Full Paper)**  
Deepankar Choudhery, Carson K. Leung
- **Cloud Service Composition Modeling Using Bigraphical Reactive Systems(Full Paper)**  
Oussama Kamel, Allaoua Chaoui, Mohamed Gharzouli
- **Constrained Hierarchical Clustering for News Events(Full Paper)**  
Ronaldo Florence, Bruno Nogueira, Ricardo Marcacini
- **Building Relation Extraction Templates via Unsupervised Learning(Full Paper)**  
Ayman El-kilany, Neamat El Tazi, Ehab Ezzat
- **Efficient Density-Based Blocking for Record Matching(Full Paper)**  
Chenxiao Dou, ruoyu wang, Daniel Sun, Muhammad Atif



Current Event: IDEAS>IDEAS2018

## 1 Conference Program

To see the abstract for a paper, please click on its title.

Session: Registration 1

Date Time: 2018-06-18 From 08:30 To 17:00

Location:

Chair: Kh Two

Session: Invited I

Date Time: 2018-06-18 From 09:00 To 10:00

Location:

Chair: Ester Zumpano

-- [The Science of Science and a Multilayer Network Approach to Scientists' Ranking\(\)](#) -- [speaker info](#)  
 Georgios Sideris, Dimitrios Katsaros, Antonis Sidiropoulos, Yannis Manolopoulos

Coffee break 1

Date Time: 2018-06-18 From 10:00 To 10:25

Location:

Session: Database Query Languages

Date Time: 2018-06-18 From 10:30 To 12:00

Location:

Chair: Luciano Caroprese

-- [Secure Reverse k-Nearest Neighbours Search over Encrypted Multi-dimensional Databases\(Full Paper\)](#) -- [speaker info](#)

Theodoros Tzouramanis, Yannis Manolopoulos

-- [Using CalcuList To MapReduce Jsons\(Full Paper\)](#) -- [speaker info](#)

Domenico Sacca', Angelo Furfaro

-- [Efficient Big Data Clustering\(Full Paper\)](#) -- [speaker info](#)

Michele Ianni, Elio Masciari, Giuseppe M. Mazzeo, Carlo Zaniolo

Lunch 1

Date Time: 2018-06-18 From 12:00 To 12:55

Location:

Session: Health-informatics and Data Management

Date Time: 2018-06-18 From 13:00 To 14:30

Location:

Chair: Elio Masciari

-- [Distributed Learning of Process Models for Next Activity Prediction\(Short Paper\)](#) -- [speaker info](#) ,slide

Michelangelo Ceci, Michele Spagnoletta, Pasqua Fabiana Lanotte, Donato Malerba

-- [A framework for the decomposition and feature extraction from lung DICOM images\(Full Paper\)](#) -- [speaker info](#)

,slide

Pietro Cinaglia, Giuseppe Tradigo, Giuseppe Lucio Cascini, Ester Zumpano, Pierangelo Veltri

-- [Twitter-based Influenza Surveillance: An Analysis of the 2016-2017 and 2017-2018 Seasons in Italy\(Full Paper\)](#) --

[speaker info](#)

Carmela Comito, Agostino Forestiero, Clara Pizzuti

Coffee break 2

Date Time: 2018-06-18 From 14:30 To 14:55

Location:

Session: Data Quality and Semantics

Date Time: 2018-06-18 From 15:00 To 16:30

Location:

Chair: Motomichi Toyama

-- [Leveraging linked entities to estimate focus time of short texts\(Short Paper\)](#) -- [speaker info](#) ,slide

Christian Morbidoni, Alessandro Cucchiarelli, Domenico Ursino

-- [Quality awareness for a Successful Big Data Exploitation\(Full Paper\)](#) -- [speaker info](#) ,slide

Cinzia Cappiello, Walter Samà, Monica Vitali

-- [Practical Study of Deterministic Regular Expressions from Large-scale XML and Schema Data\(Full Paper\)](#) --

[speaker info](#) ,slide

Yeting Li, Xinyu Chu, Xiaoying Mou, Chunmei Dong, Haiming Chen

Social Program 1

Date Time: 2018-06-18 From 17:00 To 19:00

Location:

Registration 2

Date Time: 2018-06-19 From 08:30 To 16:00

Location:

## Session: Invited II

Date Time: 2018-06-19 From 09:00 To 10:00

Location: TBA

Chair: Elio Masciari

- [Algorithms for Computing Approximate Certain Answers over Incomplete Databases\(\)](#) -- speaker info  
Sergio Greco, Cristian Molinaro, Irina Trubitsyna

## Coffee break 3

Date Time: 2018-06-19 From 10:00 To 10:25

Location:

## Session: Data Science and applications

Date Time: 2018-06-19 From 10:30 To 12:00

Location:

Chair: Cinzia Cappiello

- [Computing Extensions of Dynamic Abstract Argumentation Frameworks with Second-Order Attacks\(Full Paper\)](#) -- speaker info ,slide  
Gianvincenzo Alfano, Sergio Greco, Francesco Parisi
- [A Step forward for Spatial Skyline Queries for a Group of Users: Semantic in the Evidence Theory Setting\(Full Paper\)](#) -- speaker info  
Sayda Elmi, Jun Ki Min
- [Tensor based Data Model for Storage and Analysis of Social Network Data\(Full Paper\)](#) -- speaker info ,slide  
Eric A Leclercq, Marinette Savonnet

## Lunch 2

Date Time: 2018-06-19 From 12:00 To 12:55

Location:

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

Date Time: 2018-06-19 From 13:00 To 14:30

Location:

Chair: Richard Mcclatchey

- [Data Visualization in 3D using SuperSQL and Unity\(Full Paper\)](#) -- speaker info ,slide  
Tatsuki Fujimoto, Kento Goto, Motomichi Toyama
- [Continuous Time-Dependent kNN Join by Binary Sketches\(Full Paper\)](#) -- speaker info ,slide  
Filip Nálepá, Michal Batko, Pavel Zezula
- [A Predictive Learning Framework for Monitoring Aggregated Performance Indicators over Business Process Events\(Full Paper\)](#) -- speaker info ,slide  
Alfredo Cuzzocrea, Francesco Folino, Massimo Guarascio, Luigi Pontieri

## Coffee break 4

Date Time: 2018-06-19 From 14:30 To 14:55

Location:

## Session: Web

Date Time: 2018-06-19 From 15:00 To 16:30

Location:

Chair: Christian Morbidoni

- [Data Volume Based Data Gathering in WSNs using Mobile Data Collector\(Full Paper\)](#) -- speaker info ,slide  
Syed Muhammad Abrar Akber, Imran Ali Khan, Syed Shah Muhammad, Syed Muhammad Mohsin, Iftikhar Ahmed Khan, Shahab Shamshirband, Anthony T. Chronopoulos
- [A Cluster-based Approach of Smartphone Camera Fingerprint for User Profiles Resolution within Social Network\(Short Paper\)](#) -- speaker info ,slide  
Rahimeh Rouhi, Flavio Bertini, Danilo Montesi
- [Data Mining Ancient Script Image Data Using Convolutional Neural Networks\(Short Paper\)](#) -- speaker info ,slide  
Shruti Daggumati, Peter Z. Revesz
- [The Web of Betrayals\(Full Paper\)](#) -- speaker info ,slide  
Bipin C. Desai

## Social Program 2

Date Time: 2018-06-19 From 17:00 To 21:30

Location:

## Registration 3

Date Time: 2018-06-20 From 08:30 To 16:00

Location:

## Session: Big Data and applications

Date Time: 2018-06-20 From 09:00 To 10:30

Location:

Chair: Luigi Pontieri

- [A paradigm for the cooperation of objects belonging to different IoTs\(Full Paper\)](#) -- speaker info ,slide  
Giorgio Baldassare, Paolo Lo Giudice, Lorenzo Musarella, Domenico Ursino
- [The Deployment of an Enhanced Model-Driven Architecture for Business Process Management\(Full Paper\)](#) -- speaker info ,slide  
Richard Mcclatchey
- [Modeling Customers and Products with Word Embeddings from Receipt Data\(Full Paper\)](#) -- speaker info ,slide  
Lucas Woltmann, Maik Thiele, Wolfgang Lehner

## Coffee break 5

Date Time: 2018-06-20 From 10:30 To 10:55

Location:

## Session: Query Processing and Query Optimization

Date Time: 2018-06-20 From 11:00 To 12:30

Location:

Chair: Richard McClatchey

- [WalDis: Mining Discriminative Patterns within Dynamic Graphs\(Full Paper\)](#) -- speaker info ,slide  
Karel Vaculik, Luboš Popelínský
- [Top-k Query Processing over Distributed Sensitive Data\(Full Paper\)](#) -- speaker info ,slide  
Sakina Mahboubi, Reza Akbarinia, Patrick Valduriez
- [Personalized Keyword Search on Large RDF Graphs based on Pattern Graph Similarity\(Full Paper\)](#) -- speaker info ,slide  
Souvik Brata Sinha, Xinge Lu, Dimitri Theodoratos

Lunch 3

Date Time: 2018-06-20 From 12:30 To 13:25

Location:

Session: Data Management

Date Time: 2018-06-20 From 13:30 To 15:30

Location:

Chair: Reza Akbarinia

- [A Multiple Instance Learning Algorithm for Color Images Classification\(Short Paper\)](#) -- speaker info  
Annabella Astorino, Antonio Fuduli, Manlio Gaudioso, Eugenio Vocaturo
- [Using declarative programming for in-network data management in smart grids\(Short Paper\)](#) -- speaker info ,slide  
Quynh Thi Thanh Nguyen, Christophe Bobineau, Vincent DEBUSCHERE, Huy Quang GIAP, Nouredine Hadj-Said
- [The Inverse Tree-OLAP Problem: Definitions, Models, Complexity Analysis, and a Possible Solution\(Full Paper\)](#) -- speaker info  
Domenico Sacca', Eodardo Serra, Alfredo Cuzzocrea
- [Modeling Data Lake Metadata with a Data Vault\(Full Paper\)](#) -- speaker info ,slide  
Iuri D. Nogueira, Maram Romdhane, Jérôme Darmont

Session: Remote Presentations

Date Time: 2018-06-20 From 13:30 To 15:30

Location:

Chair: Carmela Comito

- [CART: A Real-Time Concurrency Control Protocol\(Full Paper\)](#) -- speaker info ,slide  
Sarvesh Pandey, Udai Shanker
- [A Context-driven Querying System for Urban Graph Analysis\(Short Paper\)](#) -- speaker info ,slide  
Jacques Chabin, Luiz Gomes-jr, Mirian Halfeld-ferrari
- [On Improving Data Skew Resilience In Main-memory Hash Joins\(Full Paper\)](#) -- speaker info ,slide  
Puya Memarzia, Suprio Ray, Virendra C Bhavsar
- [CELPB: A Cache Invalidation Policy for Location Dependent Data in Mobile Environment\(Short Paper\)](#) -- speaker info ,slide  
Ajay Kumar Gupta, Udai Shanker
- [An Approach for Testing the Extract-Transform-Load Process in Data Warehouse Systems\(Full Paper\)](#) -- speaker info ,slide  
Hajar Homayouni, Sudipto Ghosh, Indrakshi Ray
- [Feature Reduction Improves Classification\(Full Paper\)](#) -- speaker info ,slide  
Maha Asiri, Hamid Nemati, Fereidoon Sadri
- [MamaBot: a System based on ML and NLP for supporting women and families during pregnancy\(Short Paper\)](#) -- speaker info  
Lucia Vaira, Mario Alessandro Bochicchio, Matteo Conte, Francesco Margiotta Casaluci, Antonio Melpignano
- [A useful four-valued database logic\(Full Paper\)](#) -- speaker info ,slide  
Gosta Grahne, Ali Moallemi

Closing and IDEAS 2019, 2020

Date Time: 2018-06-20 From 15:30 To 15:40

Location:

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23rd International  
Database Engineering & Applications  
Symposium

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**IDEAS 2019**

10 – 12 June, 2019

Harokopio University  
Athens, Greece

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ConfSys.org



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UNIVERSITY



<b>Program Overview</b>			
<b>Time</b>	<b>Day 1</b>	<b>Day 2</b>	<b>Day 3</b>
09:00	IDEAS Welcome	Invited talk II	S5 - Bio-informatics and Health informatics
09:30	Invited talk I		
10:00			coffee break
10:30	coffee break	S4 - Data Mining, OLAP and Knowledge Discovery	coffee break
11:00	S1 - Data Analytics		
11:30			
12:00			SS4 - Big Data and Climate Change Impact
12:30		lunch break	
13:00	lunch break	SS2 - Privacy in Age of Information	lunch break
13:30			
14:00	S2 -- Data mining – Pattern generation	coffee break	SS3 - Data Sharing, security and privacy
14:30			
15:00			
15:30	coffee break	SS1 - Distributed Ledger Technologies/ Blockchain	coffee break
16:00	S3 - Big Data and applications -1		
16:30			
17:00			
17:30			
18:00	End of Sessions	Departure for Acropolis Museum	End of the Conference
18:30	Departure for Welcome Cocktail	Acropolis Museum Tour	
19:00	Welcome Cocktail		
20:30	Conference Dinner		

<b>Session: Welcome and Invited Talk I</b>	2019-06-10 (09:00 10:30)	Ceremonial Hall
Chair:	Dimosthenis Anagnostopoulos	
<b>Novel Paradigms for engineering large-scale resilient IoT Systems (Invited Paper)</b>	Schahram Dustdar	
<b>Session: S1 - Data analytics</b>	2019-06-10 (11:00 13:00)	Ceremonial Hall
Chair:	Schahram Dustdar	
<b>Exploratory Data Analysis and Crime Prediction for Smart Cities(Full Paper)</b>	Isha Pradhan, Katerina Potika, Magdalini Eirinaki, Petros Potikas	
<b>Unsupervised Context Extraction via Region Embedding for Context-Aware Recommendations(Full Paper)</b>	Padipat Sitkrongwong, Atsuhiko Takasu	
<b>Supervised Learning Methods Application to Sentiment Analysis(Full Paper)</b>	Sergio Altares López, Juan J. Cuadrado-gallego	
<b>On Approximate Nesting of Multiple Social Network Graphs: a preliminary study (Short Paper)</b>	Giacomo Bergami, Flavio Bertini, Danilo Montesi	
<b>An Neo4j Implementation for Designing Fuzzy Graph Databases(Short Paper)</b>	Bruno Ponsoni Costa, Luis Mariano Del Val Cura	
<b>Session: S2 - Data mining - pattern generation</b>	2019-06-10 (14:00 – 15:30)	Ceremonial Hall
Chair:	Carson K. Leung	
<b>A data mining approach for predicting main-engine rotational speed from vessel speed measurements(Full Paper)</b>	Dimitrios Kaklis, George Giannakopoulos, Iraklis Varlamis, Constantine D. Spyropoulos, Takis John Varelas	
<b>Data Mining Ancient Scripts to Investigate their Relationships and Origins(Full Paper)</b>	Shruti Daggumati, Peter Z. Revesz	
<b>On the Appropriate Pattern Frequentness Measure and Pattern Generation Mode - A critical review(Full Paper)</b>	Tongyuan Wang, Bipin C. Desai	
<b>Session: S3 - Big Data and applications -1</b>	2019-06-10 (16:00 18:00)	Ceremonial Hall
Chair:	Peter Z. Revesz	
<b>Database system comparison based on spatiotemporal functionality (Full Paper)</b>	Antonios Makris, Konstantinos Tserpes, Dimosthenis Anagnostopoulos, Mara Nikolaidou, Jose Antônio Fernandes De Macedo	
<b>Simplified Data Posting in Practice (Full Paper)</b>	Elio Masciari, Domenico Sacca', Irina Trubitsyna	
<b>A fast solution for bi-objective traffic minimization in geo-distributed data flows (Full Paper)</b>	Anna-Valentini Michailidou, Anastasios Gounaris	
<b>VISEN: A Video Interactive Retrieval Engine Based on Semantic Network in large video collections (Full Paper)</b>	Mohamed Hamroun, Sonia Lajmi, Henri Nicolas, Ikram Amous	
<b>Session: Invited Talk II -1</b>	2019-06-11 (09:00 – 10:00)	Ceremonial Hall
Chair:	Yannis Manolopoulos	
<b>The Homomorphism Property in Query Containment and Data Integration (Invited Paper)</b>	Foto N Afrati	
<b>Session: S4 - Data Mining, OLAP, and Knowledge Discovery</b>	2019-06-11 (10:30 – 12:00)	Ceremonial Hall
Chair:	Foto N Afrati	
<b>Weight assignment on edges towards improved community detection (Full Paper)</b>	Dora Souliou, Petros Potikas, Katerina Potika, Aris Pagourtzis	
<b>Discovering Complex Temporal Dependencies from heterogeneous sensor data streams (Full Paper)</b>	Amine El Ouassouli, Lionel Robinault, Vasile-marian Scuturici	
<b>EQL-CE: An Event Query Language for Connected Environments (Full Paper)</b>	Elio Mansour, Richard Chbeir, Philippe Arnould	

<b>Session: SS4 - Big Data and Climate Change Impact</b>	2019-06-11 (12:00 – 12:30)	Ceremonial Hall
Chair: Bipin C. Desai		
<b>Climate Change Data Analysis: Case study of Banana in the French West Indies (Short Paper)</b> Nathan Jadoul, Erick Stattner		
<b>DWS: a data placement approach for Smart Grid Ecosystems (Short Paper)</b> Asma Zgolli, Christophe Bobineau, Christine Collet		
<b>Session: SS2 - Privacy In Age of Information</b>	2019-06-11 (13:30 – 15:00)	Ceremonial Hall
Chair: Elio Masciari		
<b>Privacy In the Age of Information (and Algorithms)(Full Paper)</b> Bipin C. Desai		
<b>An Effective Algorithm for Learning Single Occurrence Regular Expressions with Interleaving(Full Paper)</b> Yeting Li, Haiming Chen, Xiaolan Zhang, Lingqi Zhang		
<b>Open Government Data usage: a brief overview(Full Paper)</b> Alfonso Quarati, Monica De Martino		
<b>Session: SS1- Distributed Ledger Technologies/ Blockchain</b>	2019-06-11 (15:30 – 17:45)	Ceremonial Hall
Chair: Dimitrios Michail		
<b>Enabling Propagation in Web of Trust by Ethereum (Full Paper)</b> Francesco Buccafurri, Lorenzo Musarella, Roberto Nardone		
<b>Virtual Private Ledgers: Embedding Private Distributed Ledgers over a Public Blockchain by means of Cryptography (Full Paper)</b> Antonio Arena, Pericle Perazzo, Gianluca Dini		
<b>Studying forward looking bubbles inBitcoin/USD exchange rates (Full Paper)</b> Stefano Bistarelli, Gianna Figà Talamanca, Francesco Lucarini, Ivan Mercanti		
<b>Blockchain-based Risk Mitigation for Invoice Financing (Full Paper)</b> Meriem Guerar, Luca Verderame, Alessio Merlo, Mauro Migliardi		
<b>Blockchain-based Micropayment Systems: Economic Impact (Poster)</b> Nida Khan, Tabrez Ahmad, Radu State		
<b>A Machine-Learning Framework for Supporting Intelligent Web-Phishing Detection and Analysis (Poster)</b> Alfredo Cuzzocrea, Fabio Martinelli, Francesco Mercaldo		
<b>Session: S5 - Bio-informatics and Health informatics</b>	2019-06-12 (09:00 – 10:30)	Ceremonial Hall
Chair: Sotirios Kontogiannis		
<b>Classification of eye-state using single time-point EEG recordings, across the scalp (Full Paper)</b> Phoebe May Asquith, Hisham Ihshaish		
<b>Meta-Data Management and Quality Control for the Medical Informatics Platform (Full Paper)</b> Admir Demiraj, Kostis Karozos, Iosif Spartalis, Vasilis Vassalos		
<b>On Discovering Relevant Features for Tongue Colored Image Analysis (Full Paper)</b> Ester Zumpano, Eugenio Vocaturo, Pierangelo Veltri		
<b>Session: S6 - Big Data and applications - 2</b>	2019-06-12 (11:00 – 13:00)	Ceremonial Hall
Chair: Mohamed Nassar		
<b>Differentially Private Sequential Pattern Mining considering Time Interval for Electronic Medical Record Systems (Full Paper)</b> Hieu Hanh Le, Muneo Kushima, Kenji Araki, Haruo Yokota		
<b>HSSN: An Ontology for Hybrid Semantic Sensor Networks (Full Paper)</b> Elio Mansour, Richard Chbeir, Philippe Arnould		
<b>A Spatial Index for Hybrid Storage (Full Paper)</b> Athanasios Fevgas, Panayiotis Bozanis		
<b>The Design and Implementation of AIDA: Ancient Inscription Database and Analytics System (Short Paper)</b> Peter Z. Revesz, M Parvez Rashid, Yves Tuyishime		
<b>Indexing large updatable Datasets in Multi-Version Database Management Systems (Short Paper)</b> Christian Riegger, Tobias Vinçon, Ilia Petrov		

Chair: Hoda Mehrpouyan

**A New Malware Detection System Using a High Performance-ELM method (Full Paper)**

Shahab Shamshirband, Anthony Theodore Chronopoulos

**Transfer Learning for Malware Multi-Classification (Full Paper)**

Mohamad Al Kadri, Mohamed Nassar, Haidar Safa

**Anonymously forecasting the number and nature of firefighting operations (Full Paper)**

Jean-francois Couchot, Christophe Guyeux, Guillaume Royer

Chair: George Dimitrakopoulos

**Ant-Driven Clustering for Utility Aware Disassociation of Set-Valued Datasets (Full Paper)**

Nancy Awad, Jean-francois Couchot, Bechara Al Bouna, Laurent Philippe

**Formal Specification and Verification of User-centric Privacy Policies for Ubiquitous Systems (Full Paper)**

Hoda Mehrpouyan, Rezvan Joshaghani, Elena Sherman, Stacy Black

**Pattern mining for knowledge discovery (Short Paper)**

Carson K. Leung

**Chi Squared Feature Selection over Apache Spark (Short Paper)**

Mohamed Nassar, Haidar Safa, Alaa Almutawa, Ahmed Helal, Iskander Gaba

**Performance evaluation on encrypted – non encrypted database fields containing IoT data (Poster)**

Sotirios Kontogiannis, Christodoulos Asiminidis, Ioannis Georgiadis, Dimitrios Syndoukas, George Kokkonis

**A Genetic Algorithm for Discriminative Graph Pattern Mining (Poster)**

Karel Vaculík, Luboš Popelínský

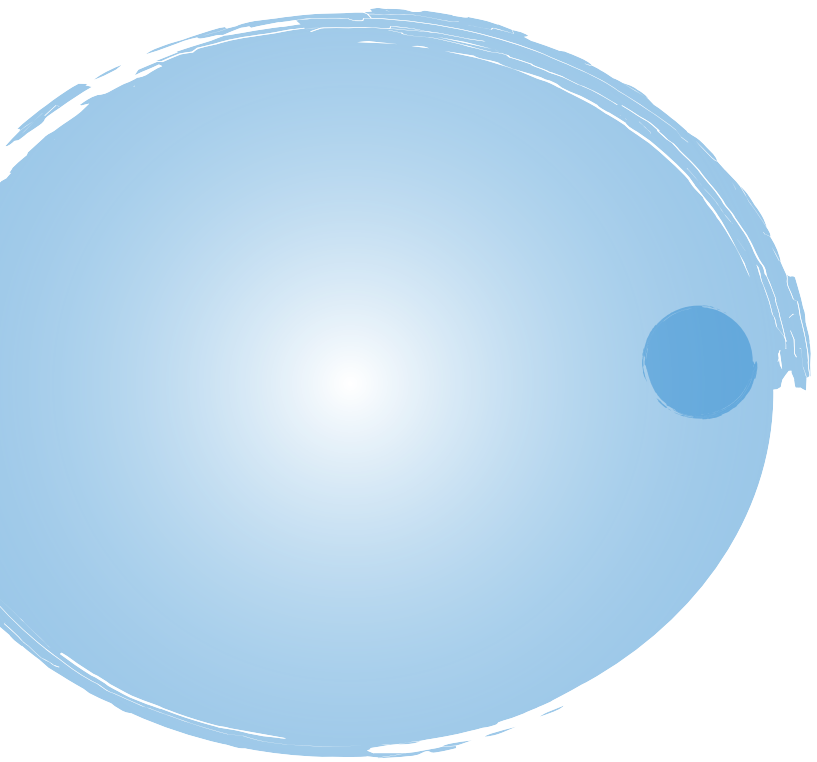
**sElect: Secure Election as a Service (Poster)**

Mohamed Nassar, Bassel Rawda, Mohamed Mardini

June 10: Morning break 10:30 –11:00, Lunch 13:00 – 14:00 Afternoon break 15:30-16:00 Reception: 18:00-20:00

June 11: Morning break 10:00 –10:30, Lunch 12:30 – 13:30 Afternoon break 15:00-15:30 Departure ,Tour, Dinner: 18:00-22:30

June 12: Morning break 10:30 –11:00, Lunch 13:00 – 14:00 Afternoon break 15:30-16:00 Goodbye till next year 18:00





Current Event: IDEAS>IDEAS2020 - 24th International Database Engineering & Applications Symposium

## 1 Conference Program

To see the abstract for a paper, please click on its title.

### Session: Semantic Web and Databases

Date Time: 2020-08-12 From 08:00 To 09:30

Location: <https://concordia-ca.zoom.us/j/97310000729?pwd=akZhZDFNaGduZ0xVRzBjcE5IMldsUT09>

Chair: Elio Masciari

- [Lifting Preferences to the Semantic Web: Preference SPARQL\(Full Paper\)](#) -- [speaker info](#) ,[slide](#)  
Markus Endres, Stefan Schödel, Klaus Emathingier
- [Towards A Universal Approach for Semantic Interpretation of Spreadsheets Data\(Full Paper\)](#) -- [speaker info](#) ,[slide](#)  
Nikita Olegovich Dorodnykh, Aleksandr Yurin
- [Consistent Query Answering with Prioritized Active Integrity Constraints\(Full Paper\)](#) -- [speaker info](#) ,[slide](#)  
Marco Calautti, Luciano Caroprese, Sergio Greco, Cristian Molinaro, Irina Trubitsyna, Ester Zumpano

### Session: Query Processing and Query Optimization

Date Time: 2020-08-12 From 09:30 To 11:00

Location: <https://concordia-ca.zoom.us/j/2224427782?pwd=T0ZLZEQzOUhERjZCWFpFMld1T3JEZz09>

Chair: Giacomo Bergami

- [Big Data Analytics with Polystore and Strongly Typed Functional Queries\(Full Paper\)](#) -- [speaker info](#) ,[slide](#)  
Annabelle Gillet, Eric A Leclercq, Marinette Savonnet, Nadine Cullot
- [Speculative Query Execution in RDBMs Based on Analysis of Query Stream Multigraphs\(Full Paper\)](#) -- [speaker info](#) ,[slide](#)  
Anna Sasak-okon, Marek Tudruj
- [Hierarchical Embedding for DAG Reachability Queries\(Full Paper\)](#) -- [speaker info](#) ,[slide](#)  
Giacomo Bergami, Flavio Bertini, Danilo Montesi

### Session: Privacy and Security

Date Time: 2020-08-12 From 13:00 To 14:00

Location: <https://concordia-ca.zoom.us/j/97310000729?pwd=akZhZDFNaGduZ0xVRzBjcE5IMldsUT09>

Chair:

- [Pandemic and Big Tech\(Full Paper\)](#) -- [speaker info](#)  
Bipin C. Desai
- [CrsMgr: Web Security and an on-line system\(Full Paper\)](#) -- [speaker info](#)  
Bipin C. Desai, Arlin L. Kipling, Reethu Navale, Jianhui Zhu

### Session: Data Science and applications

Date Time: 2020-08-13 From 08:00 To 09:30

Location: <https://concordia-ca.zoom.us/j/91025622302?pwd=ZUVNSXdMeUFOVmdONFBiFRQMIZuUT09>

Chair: Motomichi Toyama

- [Benchmarking a Distributed Database Design that Supports Patient Cohort Identification\(Full Paper\)](#) -- [speaker info](#) ,[slide](#)  
Jero Mario Schäfer, Ulrich Sax, Lena Wiese
- [Bridging the Gap Between Business Processes and IoT\(Full Paper\)](#) -- [speaker info](#) ,[slide](#)  
Zakaria Maamar, Ejub Kajan, Ikbel Guidara, Leyla Moctar M'baba, Mohamed Sellami

### Session: Database Applications

Date Time: 2020-08-13 From 09:40 To 11:10

Location: <https://concordia-ca.zoom.us/j/96664871985?pwd=MmF4Y21MdVY0bWRyUFIGdWtLeUw2UT09>

Chair: Carson K. Leung

- [Spatio-Temporal Event Discovery in the Big Social Data Era\(Full Paper\)](#) -- [speaker info](#) ,[slide](#)  
Imad Afyouni, Aamir Khan, Zaher Al Aghbari
- [Data Science for Healthcare Predictive Analytics\(Full Paper\)](#) -- [speaker info](#) ,[slide](#)  
Carson K. Leung, Daryl L.x. Fung, Saad Mushtaq, Owen T. Leduchowski, Robert Luc Bouchard, Hui Jin, Alfredo Cuzzocrea, Christine Yue Zhang
- [DC-SMIL: a Multiple Instance Learning Solution Via Spherical Separation for Automated Detection of Dysplastic Nevi\(Full Paper\)](#) -- [speaker info](#) ,[slide](#)  
Eugenio Vocaturo, Ester Zumpano, Giovanni Giallombardo, Giovanna Miglionico

### Session: Emerging database technologies

Date Time: 2020-08-13 From 13:00 To 14:30

Location: <https://concordia-ca.zoom.us/j/94531983681?pwd=UmVjWXJ2VG9XMFFna3NIZTlvZitJUT09>

Chair: Peter Z. Revesz

- [Avoiding Blocking by Scheduling Transactions using Quantum Annealing\(Full Paper\)](#) -- [speaker info](#) ,[slide](#)  
Tim Bittner, Sven Groppe
- [HYRAQ: Optimizing Large-Scale Analytical Queries through Dynamic Hypergraphs\(Full Paper\)](#) -- [speaker info](#) ,[slide](#)  
Ladjel Bellatreche, Mustapha Chaba Mouna, Narhimene Boustia
- [Guidelines for Cybersecurity Visualization Design\(Full Paper\)](#) -- [speaker info](#) ,[slide](#)  
Joseph K Nuamah, Younho Seong, Sun Yi

**Session: Bio-informatics and Health informatics**

Date Time: 2020-08-14 From 08:00 To 09:50

Location: <https://concordia-ca.zoom.us/j/91626067950?pwd=NXRQTWI0TTZpbHVYR1BZWFFDc1VMUT09>

Chair: Wookey Lee

- [Implementation of Dynamic Page Generation for Stream Data by SuperSQL\(Full Paper\)](#) -- [speaker info](#) ,[slide](#)  
Keita Terui, Kento Goto, Motomichi Toyama
- [Local Connectivity in Centroid Clustering\(Full Paper\)](#) -- [speaker info](#) ,[slide](#)  
Deepak P
- [An Android-Based Mobile Paratransit Application for Vulnerable Road Users\(Short Paper\)](#) -- [speaker info](#) ,[slide](#)  
Kelvin Kwasi Kwakye, Younho Seong, Sun Yi
- [Patent Prior Art Search using Deep Learning Language Model\(Full Paper\)](#) -- [speaker info](#) ,[slide](#)  
Dylan Myungchul Kang, Charles Cheolgi Lee, Suan Lee, Wookey Lee

**Session: Social Media and Social networks**

Date Time: 2020-08-14 From 09:55 To 11:40

Location: <https://concordia-ca.zoom.us/j/92006048826?pwd=QWIDeWNRUlpHUzILRTJqSkM3aEcrdz09>

Chair: Ladjel Bellatreche

- [Detecting Fake News by Image Analysis\(Short Paper\)](#) -- [speaker info](#) ,[slide](#)  
Elio Masciari, Vincenzo Moscato, Antonio Picariello, Giancarlo Sperli
- [A Pattern-based Approach for an Early Detection of Popular Twitter Accounts\(Full Paper\)](#) -- [speaker info](#) ,[slide](#)  
Jonathan Debure, Stephan Brunessaux, Camelia Constantin, Cedric Du Mouza
- [Emotion Cognizance Improves Health Fake News Identification\(Full Paper\)](#) -- [speaker info](#) ,[slide](#)  
Anoop K, Deepak P, Lajish V L
- [QoC enhanced semantic IoT model\(Full Paper\)](#) -- [speaker info](#) ,[slide](#)  
Hela Zorgati, Raoudha Ben Djemaa, Ikram Amous Ben Amor, Florence Sedes

**Session: Data analytics**

Date Time: 2020-08-14 From 13:00 To 14:30

Location: <https://concordia-ca.zoom.us/j/97310000729?pwd=akZhZDFNaGduZ0xVRzBjcE5IMldsUT09>

Chair: Carson K. Leung

- [A Novel Spatio-Temporal Interpolation Algorithm and Its Application to the COVID-19 Pandemic\(Full Paper\)](#) -- [speaker info](#) ,[slide](#)  
Junzhe Cai, Peter Z. Revesz
- [A Practical Application for Sentiment Analysis on Social Media Textual Data\(Short Paper\)](#) -- [speaker info](#) ,[slide](#)  
Fan Jiang, Colton Aarts, Liang Chen
- [A Learning Index Tuner using Deep Reinforcement Learning for a Cluster Database\(Full Paper\)](#) -- [speaker info](#) ,[slide](#)  
Seyedeh Zahra Sadri Tabaei, Le Gruenwald, Eleazar Leal
- [Organizing and Compressing Collections of Files Using Differences\(Full Paper\)](#) -- [speaker info](#) ,[slide](#)  
Sudarshan S Chawathe



Current Event: IDEAS>IDEAS 2021: the 25th anniversary

## 1 Conference Program

To see the abstract for a paper, please click on its title.

### Session: Big Data and applications

Date Time: 2021-07-14 From 08:30 To 10:00

Location: <https://concordia-ca.zoom.us/j/83105906048?pwd=RUVzcXBWU1d2QytYSFZsdkwraWFYdz09>

Chair: Richard Mcclatchey

- [SQL-like query language and referential constraints on tree-structured data\(Full Paper\)](#) -- [speaker info](#)  
Foto N Afrati, Matthew George Damigos, Nikos Stasinopoulos
- [Load Balanced Semantic aware RDF Graph\(Full Paper\)](#) -- [speaker info](#)  
Ami Pandat, Nidhi Gupta, Minal Bhise

### Session: Data Quality and Semantics

Date Time: 2021-07-14 From 10:15 To 11:45

Location: <https://concordia-ca.zoom.us/j/85007409169?pwd=d0NqMWRoUkpsNIM1eBSVDhJbGhHZz09>

Chair: Richard Mcclatchey

- [ArchaeoDAL: A Data Lake for Archaeological Data Management and Analytics\(Full Paper\)](#) -- [speaker info](#)  
Pengfei Liu, Sabine Loudcher, Jérôme Darmont, Camille Noûs
- [ICIX: a Semantic Information Extraction System\(Full Paper\)](#) -- [speaker info](#) ,[slide](#)  
Angel Luis Garrido, Alvaro Peiro, Cristian Roman, Carlos Bobed, Eduardo Mena
- [Customized Eager-Lazy Data Cleansing for Satisfactory Big Data Veracity\(Full Paper\)](#) -- [speaker info](#) ,[slide](#)  
Soror Sahri, Rim Moussa

### Session: NoSQL approaches to data management

Date Time: 2021-07-14 From 13:00 To 14:30

Location: <https://concordia-ca.zoom.us/j/87995866360?pwd=b3V4OFJMbWg4OW53Q1JYQ0pNcWxtUT09>

Chair: Bipin C. Desai

- [Towards a continuous forecasting mechanism of parking occupancy in urban environments\(Full Paper\)](#) -- [speaker info](#)  
Miratul Khusna Mufida, Abdessamad Ait El Cadi, Thierry Delot, Martin Trépanier
- [On Efficiently Equi-Joining Graphs\(Full Paper\)](#) -- [speaker info](#) ,[slide](#)  
Giacomo Bergami
- [Multi-Model Data Modeling and Representation: State of the Art and Research Challenges\(Full Paper\)](#) -- [speaker info](#) ,[slide](#)  
Pavel Koupil, Irena Holubova, Martin Svoboda

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

Date Time: 2021-07-14 From 15:00 To 16:30

Location: <https://concordia-ca.zoom.us/j/82640426645?pwd=SHd3VHdLbFU1SEk4eJWamlhQkYz09>

Chair: Carson K. Leung

- [Explainable data analytics for disease and healthcare informatics\(Full Paper\)](#) -- [speaker info](#) ,[slide](#)  
Carson K. Leung, Daryl L.x. Fung, Daniel Mai, Jorglas Souza, Jason Tran, Qi Wen
- [Proposing a Business View of Enterprise Data\(Full Paper\)](#) -- [speaker info](#) ,[slide](#)  
Max Chevalier, Joan Marty, Franck Ravat, Bastien Vidé
- [An Automatic Schema-Instance Approach for Merging Multidimensional Data Warehouses\(Full Paper\)](#) -- [speaker info](#)  
Yuzhao Yang, Jérôme Darmont, Franck Ravat, Olivier Teste

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

Date Time: 2021-07-15 From 08:30 To 10:00

Location: <https://concordia-ca.zoom.us/j/83105906048?pwd=RUVzcXBWU1d2QytYSFZsdkwraWFYdz09>

Chair: Bipin C. Desai

- [Sink Group Between Centrality\(Full Paper\)](#) -- [speaker info](#)  
Evangelia Fragkou, Dimitrios Katsaros, Yannis Manolopoulos
- [Optimizing Transaction Schedules on Universal Quantum Computers via Code Generation for Grover's Search Algorithm\(Full Paper\)](#) -- [speaker info](#) ,[slide](#)  
Sven Groppe, Jinghua Groppe
- [Software Quality Assessment of a Web Application for Biomedical Data Analysis\(Full Paper\)](#) -- [speaker info](#) ,[slide](#)  
Kristina Lietz, Ingmar Wiese, Lena Wiese

### Session: Big Data and the 5Vs



Date Time: 2021-07-15 From 10:15 To 11:45

Location: <https://concordia-ca.zoom.us/j/85007409169?pwd=d0NqMWRoUkpsNlM1eBSVDhJbGhHZz09>

Chair: Richard Mcclatchey

-- [Looking for Jobs? Matching Adults with Autism with Potential Employers for Job Opportunities\(Full Paper\)](#) --  
speaker info

Joseph Bills, Yiu-kai Dennis Ng

-- [A Zone-Based Data Lake Architecture for IoT, Small and Big Data\(Full Paper\)](#) -- speaker info

Yan Zhao, Imen Megdiche, Franck Ravat, Vincent-nam Dang

-- [Categorical Management of Multi-Model Data\(Full Paper\)](#) -- speaker info ,slide

Martin Svoboda, Pavel Koupil, Irena Holubova

#### Session: Meta-data Management

Date Time: 2021-07-15 From 13:00 To 14:30

Location: <https://concordia-ca.zoom.us/j/87995866360?pwd=b3V4OFJMbWg4OW53Q1JYQ0pNcWxtUT09>

Chair: Peter Z. Revesz

-- [Data Mining Autosomal Archaeogenetic Data to Determine Ancient Migrations in the Aegean Area\(Full Paper\)](#) --  
speaker info ,slide

Peter Z. Revesz

-- [Exploratory analysis of methods for automated classification of clinical diagnoses in Veterinary Medicine\(Full Paper\)](#)

-- speaker info

Oscar Tamburis, Elio Masciari, Gerardo Fatone

-- [Analysis-oriented Metadata for Data Lakes\(Full Paper\)](#) -- speaker info ,slide

Yan Zhao, Julien Aligon, Franck Ravat, Chantal Soule-dupuy, Gabriel Ferrettini, Imen Megdiche

#### Session: Social Media and Social networks

Date Time: 2021-07-15 From 15:00 To 16:30

Location: <https://concordia-ca.zoom.us/j/82640426645?pwd=SHd3VHdLbFU1SEk4eJWamlhKkIYZz09>

Chair: Olga Ormandjieva

-- [Predicting late symptoms of head and neck cancer treatment using LSTM and patient reported outcomes\(Short Paper\)](#) -- speaker info

Yaohua Wang, Guadalupe M Canahuate, Lisanne V Van Dijk, Abdallah S. R. Mohamed, Clifton David Fuller, Xinhua Zhang, Georgeta-Elisabeta Marai

-- [Sentimental Analysis Applications and Approaches during COVID-19: A Survey\(Short Paper\)](#) -- speaker info

Areeba Umair, Elio Masciari, Muhammad Habib Ullah

-- [Data Management in the Data Lake: A Systematic Mapping\(Short Paper\)](#) -- speaker info ,slide

Firas Zouari, Nadia Kabachi, Khouloud Boukadi, Chirine Ghedira Guegan

-- [Rigorous Measurement Model for Validity of Big Data: MEGA Approach\(Short Paper\)](#) -- speaker info

Dave Bhardwaj, Olga Ormandjieva

#### Session: Data analytics

Date Time: 2021-07-16 From 08:30 To 10:00

Location: <https://concordia-ca.zoom.us/j/83105906048?pwd=RUVzcXBWU1d2QytYSFZsdkwaWFYdz09>

Chair: Motomichi Toyama

-- [A Framework for Enhancing Deep Learning Based Recommender Systems with Knowledge Graphs\(Full Paper\)](#) --  
speaker info

Sudhir P. Mudur, Serguei A Mokhov, Yuhao Mao

-- [Measuring Quality of Workers by Goodness-of-Fit of Machine Learning Model in Crowdsourcing\(Full Paper\)](#) --  
speaker info

Yu Suzuki

-- [SSstory: 3D data storytelling based on SuperSQL and Unity\(Full Paper\)](#) -- speaker info

Jingrui Li, Motomichi Toyama, Kento Goto

#### Session: General

Date Time: 2021-07-16 From 10:30 To 12:15

Location: <https://concordia-ca.zoom.us/j/85007409169?pwd=d0NqMWRoUkpsNlM1eBSVDhJbGhHZz09>

Chair: Bipin C. Desai

-- [An In-Browser Collaborative System for Functional Annotations\(Short Paper\)](#) -- speaker info

Yui Saeki, Motomichi Toyama

-- [MANTIS: Multiple Type and Attribute Index Selection using Deep Reinforcement Learning\(Full Paper\)](#) -- speaker  
info ,slide

Vishal Sharma, Curtis Dyreson, Nicholas Flann

-- [Bringing Common Subexpression Problem from the Dark to Light: Towards Large-Scale Workload Optimizations\(Full Paper\)](#) -- speaker info ,slide

Mohamed Kechar, Ladjel Bellatreche, Safia Nait-bahloul

#### Session: Virtual

Virtual session - please use the Program pack to look at the papers/presentations and send questions to the author(s)

Date Time: 2021-07-16 From 13:00 To 15:00

Location:

Chair: Will Knight