

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

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