

ADBIS 2012 conference program

Registration

Monday 08:00 – 12:00 and 18:00 – 20:00
Tuesday-Thursday 08:00 – 12:00

Monday 17.09.2012

18:00 – 20:00 Welcome reception (Poznan University of Technology)

Tuesday 18.09.2012

08:45 – 09:00 **Opening Ceremony** (hall 4)

09:00 – 10:30 **Invited talk** (hall 4)

Chair: Theo Härder

Profiling Attitudes for Personalized Information Provision

Yannis Ioannidis (University of Athens, Greece)

10:30 – 11:00 Coffee break

11:00 – 12:30 **Session 1A Indexing and searching I** (room 8)

Chair: Goce Trajcevski

Aggregate Nearest Neighbor Search Methods Using SSMTA* Algorithm on Road-Network

Htoo Htoo, Yutaka Ohsawa, Noboru Sonehara, Masao Sakauchi

FOCUS: An Index FOR ContinuoUS Subsequence Pattern Queries

Witold Andrzejewski, Bartosz Bębel

Static and Incremental Selection of Multi-Table Indexes for Very Large Join Queries

Rima Bouchakri, Ladjel Bellatreche

Session 1B Data models and languages (room 13)

Chair: Margita Kon-Popovska

On a Preference Query Language that Handles Symbolic Scores

Olivier Pivert, Grégory Smits

Query Language for Complex Similarity Queries

Petra Budikova, Michal Batko, Pavel Zezula

Synthesis of the Canonical Models for Database Integration Preserving Semantics of the Value Inventive Data Models

Leonid Kalinichenko, Sergey Stupnikov

12:30 – 14:00 Lunch

14:00 – 15:40

Session 2A **Data mining I** (room 8)

Chair: Tadeusz Morzy

Text Classification by Aggregation of SVD Eigenvectors

Panagiotis Symeonidis, Ivaylo Kehayov, Yannis Manolopoulos

Document Classification Using POS Distribution

Masato Shirai, Takao Miura

Partitioning Approach to Collocation Pattern Mining in Limited Memory Environment Using Materialized iCPI-Trees

Paweł Boiński, Maciej Zakrzewicz

Semantic Approach to Cluster Validity Notion

Elena Sivogolovko, Bernhard Thalheim

Session 2B **Theoretical foundations of databases** (room 13)

Chair: Leonid Kalinichenko

Tractable Reasoning Problems with Fully-Characterized Association Rules

Mauricio Minuto Espil

Reasoning in Multi-agent Systems with Random Knowledge Distribution

Dominik Ryžko

Relational Schema Summarization: a Context-Oriented Approach

Marcus Sampaio, Jefferson Quesado, Samarony Barros

Functional Dependencies on Symbol Strings Generated by Extended Context Free Languages

Gyula I. Szabó, András Benczúr

15:40 – 16:10

Coffee break

16:10 – 17:40

Session 3A **Query processing** (room 8)

Chair: Bogdan Czejdo

Optimizing the Resource Allocation for Approximate Query Processing

Anna Yarygina, Boris Novikov

Deterministic View Selection For Data-Analysis Queries: Properties and Algorithms

Rong Huang, Rada Chirkova, Yahya Fathi

Automatic Selection of Processing Units for Coprocessing in Databases

Sebastian Breß, Felix Beier, Hannes Rauhe, Eike Schallehn, Kai-Uwe Sattler, Gunter Saake

Session 3B **Advanced databases I** (room 13)

Chair: Jerzy Stefanowski

Materialized Views for Count Aggregates of Spatial Data

Anan Yagoub, Xudong Liu, Goce Trajcevski, Egemen Tanin, Peter Scheuermann

A Top-k Filter for Logic-Based Similarity Conditions on Probabilistic Databases

Sebastian Lehrack, Sascha Saretz

Extending HQL with Plain Recursive Facilities

Aneta Szumowska, Marta Burzańska, Piotr Wiśniewski, Krzysztof Stencel

19:15 Welcome by the Mayor of the City of Poznań
White Hall at the Poznan City Council (Urząd Miasta Poznania)
Plac Kolegiacki 17, Poznań

Wednesday 19.09.2012

09:00 – 10:30 **Invited talk (room 8)**

Chair: Robert Wrembel

Meeting Big Data challenges in Leadership with Human-Computer Synergy

Morten Middelfart (Targit, USA)

10:30 – 11:00 Coffee break

11:00 – 12:30 **Session 4A Applications (room 8)**

Chair: Boris Novikov

IBM big data platform

Artur Wroński

Data in XXI century - how to manage and analyze enormous data sets. From traditional BI to BigData solution

Tomasz Kopacz

Towards Automated Enterprise Architecture Documentation: Analyzing the Application Potential of SAP PI

Sebastian Grunow, Florian Matthes, Sascha Roth

Session 4B Database architectures (room 13)

Chair: Jaroslav Pokorny

SimpleSQL: A Relational Layer for SimpleDB

André Calil, Ronaldo dos Santos Mello

Just-in-time Data Distribution for Analytical Query Processing

Milena Ivanova, Martin Kersten, Fabian Groffen

PropScale: An update propagator for joint scalable storage

Paweł Leszczyński, Krzysztof Stencel

12:30 – 14:00 Lunch

14:00 – 15:40 **Session 5A Data streams (room 8)**

Chair: Boris Novikov

Towards Relaxed Selection and Join Queries over Data Streams

Barbara Catania, Giovanna Guerrini, Maria Teresa Pinto, Paola Podestà

Get Tracked: A Triple Store for RFID Traceability Data

Veneta Dobрева, Martina-Cezara Albutiu, Robert Brunel, Thomas Neumann, Alfons Kemper

Synchronization Modeling in Stream Processing

Marcin Gorawski, Aleksander Chrószcz

On Parallel Sorting of Data Streams

Zbyněk Falt, Jan Bulánek, Jakub Yaghob

Session 5B XML (room 13)

Chair: Attila Kiss

Leveraging the Storage Layer to Support XML Similarity Joins in XDBMSs

Leonardo Andrade Ribeiro, Theo Härder

Containment and Satisfiability Problem for XPath with Recursion

Balázs Kósa

Inference of XML Integrity Constraints

Matej Vitásek, Irena Mlynková

An adaptive navigation method for semi-structured data

Rim Zghal Rebaî, Corinne Amel Zayani, Ikram Amous

15:40 – 16:10

Coffee break

16:10 – 17:40

Session 6A Indexing and searching II (room 8)

Chair: Barbara Catania

A Fuzzy-Summary-Based Approach to Faceted Search in Relational Databases

Grégory Smits, Olivier Pivert

Adapting the B+-tree for asymmetric I/O

Stratis D. Viglas

An indexing structure for dynamic multidimensional data in vector space

Elena Mikhaylova, Boris Novikov, Anton Volokhov

Session 6B Semantic information processing (room 13)

Chair: Rainer Manthey

Supporting Phase Management in Stream Applications

Gereon Schüller, Philip Schmiegelt, Andreas Behrend

GOSPL: a Method and Tool for Fact-oriented Hybrid Ontology Engineering

Christophe Debruyne, Robert Meersman

An automated approach of designing multiplex PCR primers for the amplification of exons

Adam Skowron, Rafał Pokrzywa

19:00

Conference dinner

Gospoda Młyńskie Koło
ul. Browarna 37, Poznań

Thursday 20.09.2012

9:00 – 10:40

Session 7A Reputation, social networks and WEB (room 8)

Chair: Peter Vojtáš

Frequent Links: An Approach that Combines Attributes and Structure for

Extracting Frequent Patterns in Social Networks

Erick Stattner, Martine Collard

Social Network Analysis on Highly Aggregated Data: What Can We Find?

Mikołaj Morzy, Kamil Forenc

Adaptation of Asymptotic Trust Algorithm Reputation on Internet Forums

Konrad Leszczyński, Maciej Zakrzewicz

Choosing Values for Text Fields in Web Forms

Gustavo Z. Kantorski, Tiago G. Moraes, Viviane P. Moreira, Carlos A. Heuser

Session 7B Business process modeling and DB design (room 13)

Chair: Albertas Caplinskas

KALCAS: A framework for semi-Automatic alignment of data and business processes Architectures

Camilo Castellanos, Dario Correal

Aligning Business Process Models and Domain Knowledge: A Meta-Modeling Approach

Samira Si-Said Cherfi, Sarah Ayad, Isabelle Comyn-Wattiau

On Reducing the Solution Spaces of Database Design Problems

Erki Eessaar, Natalja Rõžova

Towards the Automated Business Model-driven Conceptual Database Design

Drazen Brdjanin, Slavko Maric

10:40 – 11:10

Coffee break

11:10 – 12:50

Session 8A Data mining II (room 8)

Chair: Panagiotis Symeonidis

Retention Replacement in Privacy Preserving Classification

Piotr Andruszkiewicz

Efficient Integration of External Information into Forecast Models from the Energy Domain

Lars Dannecker, Elena Vasilyeva, Matthias Boehm, Wolfgang Lehner, Gregor Hackenbroich

Mining Association Rules from Database Tables with the Instances of Simpson's Paradox

Wojciech Froelich

Reduction Relaxation in Privacy Preserving Association Rules Mining

Piotr Andruszkiewicz

Session 8B Database querying (room 13)

Chair: Goce Trajcevski

Efficient Processing of Top-K Join Queries by Attribute Domain Refinement

Dragan Sahpaski, Aleksandar Dimovski, Goran Velinov, Margita Kon-Popovska

Implementing a Query Language for Java Object Database

Emil Wcisło, Piotr Habela, Kazimierz Subieta

Two-Stage Stochastic View Selection For Data-Analysis Queries

Rong Huang, Rada Chirkova, Yahya Fathi

Optimization of Object-Oriented Queries Through Pushing Selections

Marcin Drozd, Michał Bleja, Krzysztof Stencel, Kazimierz Subieta

12:50 – 13:20

Coffee break

13:20 – 14:30

Session 9A Data processing (room 8)

Chair: Christian Koncilia

Exploiting SIMD instructions in current processors to improve classical string algorithms

Susana Ladra, Óscar Pedreira, Jose Duato, Nieves R. Brisaboa

A Relative Feature Selection Algorithm for Graph Classification

Yaser Keneshloo, Sasan Yazdani

Trust in RDF Graphs

Dominik Tomaszuk, Karol Pąk, Henryk Rybiński

Session 9B Distributed systems (room 13)

Chair: Ladjel Bellatreche

D-ReServE: Distributed Reliable Service Environment

Jerzy Brzeziński, Arkadiusz Danilecki, Mateusz Hołenko, Anna Kobusińska, Jacek Kobusiński, Piotr Zierhoffer

Decomposition of Non-deterministic Services for the Purpose of Replication

Marcin Bazydło, Szymon Francuzik, Cezary Sobaniec, Dariusz Wawrzyniak

Generic Conceptual Framework for Handling Schema Diversity in Data Integration: Applications to Semantic Databases

Selma Khouri, Ladjel Bellatreche, Nabila Berkani

14:30 – 15:30

Lunch