CONTENTS

INVITED SPEAKERS

KEYNOTE SPEAKERS

Main-Memory Centric Data Management – Open Problems and Some Solutions
Wolfgang Lehner

Context-Aware Decision Support in Dynamic Environments - Theoretical & Technological Foundations
Alexander Smirnov

BUSINESS ANALYTICS

FULL PAPERS

Parameterised Fuzzy Petri Nets for Knowledge Representation and Reasoning
Zbigniew Suraj

Subspace Clustering with Distance-density Function and Entropy in High-dimensional Data
Jiwu Zhao and Stefan Conrad

Enhancing Collaboration in Big Biomedical Data Settings - Knowledge Visualization, Data Mining and Decision Making Issues
Nikos Karacapilidis, Georgia Tsiliki and Manolis Tsagarakis

Rating of Discrimination Networks for Rule-based Systems
Fabian Ohler, Kai Schwarz, Karl-Heinz Krempels and Christoph Terwelp

SHORT PAPERS

A MapReduce Architecture for Web Site User Behaviour Monitoring in Real Time
Bill Karakostas and Babis Theodoulidis

Enhancing News Articles Clustering using Word N-Grams
Christos Bouras and Vassilis Tsogkas

Advanced Analytics with the SAP HANA Database
Philipp Große, Wolfgang Lehner and Norman May

Predicting Cases of Ambulatory Care Sensitive Conditions
W. Haque and D. C. Finke

Consistency of Incomplete Data
Patrick G. Clark and Jerzy Grzymala-Busse

Database Functionalities for Evolving Monitoring Applications
Philip Schmiegelt, Jingquan Xie, Gereon Schüller and Andreas Behrend

Effective Business Plan Evaluation using an Evolutionary Ensemble
G. Dounias, A. Tsakonas, D. Charalampakis and E. Vasilakis

R-Pref: Rapid Prototyping of Database Preference Queries in R
Patrick Roocks and Werner Kießling
Estimate the Market Share from the Search Engine Hit Counts
Robert Viseur

A New Addressing Scheme for Discrimination Networks easing Development and Testing
Karl-Heinz Krempels, Fabian Ohler and Christoph Terwelp

DATA MANAGEMENT AND QUALITY

FULL PAPERS

A Generic and Flexible Framework for Selecting Correspondences in Matching and Alignment Problems
Fabiën Duchateau

Automatic Synthesis of Data Cleansing Activities
Mario Mezzanzanica, Roberto Boselli, Mirko Cesarini and Fabio Mercorio

SHORT PAPERS

A Clustering Topology for Wireless Sensor Networks - New Semantics over Network Topology
Paul Cotofrei, Ionel Tudor Calistrut and Kilian Stoffel

Data Management for M2M Communication using Telecom Mediation Systems
Sandeep Akhouri and Kirti Girdhar

Data Quality Evaluation of Scientific Datasets - A Case Study in a Policy Support Context
Antonella Zanzi and Alberto Trombetta

Social Data Sentiment Analysis in Smart Environments - Extending Dual Polarities for Crowd Pulse Capturing
Athena Vakali, Despoina Chatzakou, Vassiliki Koutsonikola and Georgios Andreadis

An Elastic Cache Infrastructure through Multi-level Load-balancing
Carlos Lübke and Bernhard Mitschang

Approaching ETL Conceptual Modelling and Validation using BPMN and BPEL
Bruno Oliveira and Orlando Belo

Towards a Second Generation of Computer Interpretable Guidelines
Paolo Terenziani, Alessio Bottrighi, Laura Giordano, Giuliana Franceschini, Stefania Montani, Luigi Porlinale and Daniele Theseider Dupre

Citable by Design - A Model for Making Data in Dynamic Environments Citable
Stefan Pröll and Andreas Rauber

Data Curation Framework for Facilities Science
Vasily Bunakov and Brian Matthews

ONTOLOGIES AND THE SEMANTIC WEB

SHORT PAPERS

EDEX: Entity Preserving Data Exchange
Yoones A. Sekhavat and Jeffrey Parsons
Semantic Copyright Management of Media Fragments
Roberto Garcia, David Castellà and Rosa Gil

Designing a Farmer Centred Ontology for Social Life Network
Anusha Indika Walisadeera, Gihan Nilendra Wikramanayake and Athula Ginige

Extraction of Biographical Data from Wikipedia
Robert Viseur

DATABASES AND DATA SECURITY

FULL PAPER

Automata Theory based Approach to the Join Ordering Problem in Relational Database Systems
Miguel Rodriguez, Daladier Jabba, Elias Niño, Carlos Ardila and Yi-Cheng Tu

SHORT PAPERS

Frame Time and Cardinality Indeterminacy in Temporal Relational Databases
Paolo Terenziani

Design and Evaluation of a Graph Codec System for Software Watermarking
Maria Chroni and Stavros D. Nikolopoulos

SylvaDB: A Polyglot and Multi-backend Graph Database Management System
Javier de la Rosa, Juan Luis Suárez and Fernando Sancho Caparrini

Highly Scalable Sort-merge Join Algorithm for RDF Querying
Zbyněk Falt, Miroslav Čermák and Filip Zavoral

AUTHOR INDEX