

Table of Contents

Keynotes

Business Information Systems Utilizing the Future Internet	1
<i>John Krogstie</i>	
Next Generation of Modelling Platforms	19
<i>Dimitris Karagiannis and Niksa Visic</i>	

Business Intelligence and Performance Management

Using Semantically Annotated Models for Supporting Business Process Benchmarking	29
<i>Hans-Georg Fill</i>	
Performance Measurement Framework with Formal Indicator Definitions	44
<i>Aivars Niedritis, Laila Niedrite, and Natalija Kozmina</i>	
Using the Entity-Attribute-Value Model for OLAP Cube Construction	59
<i>Peter Thanisch, Tapio Niemi, Marko Niinimäki, and Jyrki Nummenmaa</i>	
Near Real-Time Data Warehousing with Multi-stage Trickle and Flip ...	73
<i>Janis Zuters</i>	

Data and Processes

Data Consistency in Transactional Business Processes	83
<i>Andreas Lodde, Antoine Schlechter, Pascal Bauler, and Fernand Feltz</i>	
Business Process and Regulations: Approach to Linkage and Change Management	96
<i>Peteris Rudzajs and Ilze Buksa</i>	
Parallel Tabu Search Algorithm for Data Structure Composition	110
<i>Eduard Babkin, Margarita Karpunina, and Natalia Aseeva</i>	

Ontologies

Survey on Ontology Languages	124
<i>Diana Kalibatiene and Olegas Vasilecas</i>	

Advanced RDB-to-RDF/OWL Mapping Facilities in RDB2OWL 142
Guntars Būmans and Kārlis Čerāns

Export of Relational Databases to RDF Databases by Model
Transformations 158
Sergejs Rikacovs

Architectures

An Analysis of Enterprise Architecture Maturity Frameworks 167
Martin Meyer, Markus Helfert, and Conor O'Brien

Enterprise Resource Planning (ERP) Systems: Use of Reference
Models 178
Dejan Pajk, Mojca Indihar-Štemberger, and Andrej Kovačič

A Universal Model-Based Solution for Describing and Handling
Errors 190
Sergejs Kozlovics

Stakeholders' Perspectives

Validating Organizational Knowledge Patterns: Case Study from
Information Demand Modeling 204
Kurt Sandkuhl

Analysis of Dynamic Interactions with External Parties during
Maintenance of ERP Systems 217
Igors Mikulovs and Jānis Grabis

Discovering of Users' Interests Evolution Patterns for Learning Goals
Recommendation 231
Witold Abramowicz, Jacek Małyszko, and Dawid Grzegorz Węckowski

Web Information Systems and Services

Modeling Secure Navigation in Web Information Systems 239
Marianne Busch, Alexander Knapp, and Nora Koch

Quality of Health Web Sites: Dimensions for a Wide Evaluation 254
Álvaro Rocha, Avelino Victor, and Patrícia Leite Brandão

Analysis and Evaluation of Selected Shops with Organic Food in
Poland 267
Witold Chmielarz

Evaluating the Application of Service-Oriented Auditing in the B2G Domain: A Case Study	281
<i>Faiza Allah Bukhsh and Hans Weigand</i>	
Cloud Computing and Economic Growth in the Baltic Sea Region Countries	296
<i>Andrzej Kobyliński and Marcin Michalski</i>	
Systems Approach	
The Viable Systems Approach (VSA) for Re-interpreting Network Business Dynamics	304
<i>Paolo Piciocchi, Clara Bassano, Erica Paduano, and Maureen Galvin</i>	
Views on Scientific Workflows	321
<i>Mirko Sonntag, Katharina Görlach, Dimka Karastoyanova, Frank Leymann, Polina Malets, and David Schumm</i>	
Agile Business Process Management in Research Projects of Life Sciences	336
<i>Silke Holzmüller-Laue and Bernd Göde</i>	
A Conceptual Framework for Design Science Research	345
<i>Lukasz Ostrowski, Markus Helfert, and Fakir Hossain</i>	
Author Index	355