# Contents

From Information Systems Development to Enterprise Engineering  .... 1
Jan L. G. Dietz

The Mobile and Mobility: Information, Organisations and Systems  .... 25
John Traxler

Design of Situational Artefacts—Conceptual Foundations and Their Application to IT/Business Alignment  . 35
Robert Winter

Preferences of Business Process Models: Interpretative Analysis on Spontaneously Common Symbols  . 51
Saleh Al-wahaishi, Ahmad Jaffar, Ivo Vondrák, Václav Snášel and Jaroslav Pokorný

Verification of $^*$ Models Using Alloy  . 63
Peter Oluoch Ating’a and Aneesh Krishna

Planning and Scheduling of Business Processes in Run-Time: A Repair Planning Example  . 75
Irene Barba and Carmelo Del Valle

A Study of First Click Behaviour and User Interaction on the Google SERP  . 89
Chris Barry and Mark Lardner

Effective QoS Aware Web Service Composition in Dynamic Environment  . 101
Peter Bartalos and Mária Bieliková

The Right Tools for the Right Tasks: Meaningful Education for IS Professional  . 115
Peter M. Bednar and Christine Welch
<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conditions Influencing Client–IS Supplier Interactions During IS Outsourcing</td>
<td>125</td>
</tr>
<tr>
<td>Linda Bergkvist</td>
<td></td>
</tr>
<tr>
<td>Facilitating the Creation of Quality Object Models Using a Knowledge Based System</td>
<td>137</td>
</tr>
<tr>
<td>Narasimha Bolloju and Christoph Schneider</td>
<td></td>
</tr>
<tr>
<td>MetaMorPic: Self-Contained Photo Archival and Presentation</td>
<td>149</td>
</tr>
<tr>
<td>Tomas Cerny and Michael J. Donahoo</td>
<td></td>
</tr>
<tr>
<td>A Real Time Multiagent Information Systems Architecture for Actively Monitoring Chronic Diseases</td>
<td>159</td>
</tr>
<tr>
<td>Emma Chavez-Mora and Gavin Finnie</td>
<td></td>
</tr>
<tr>
<td>Christian Czarnecki, Axel Winkelmann and Myra Spiliopoulou</td>
<td></td>
</tr>
<tr>
<td>Convolution as the Key for Service-Identification in Complex Process Models</td>
<td>181</td>
</tr>
<tr>
<td>Gunnar Dietz, Martin Juhrisch and Katrina Leyking</td>
<td></td>
</tr>
<tr>
<td>Studying Maintainability on Model-Driven Web Methodologies</td>
<td>195</td>
</tr>
<tr>
<td>Francisco José Dominguez-Mayo, María José Escalona, Manuel Mejías and Jesús Torres</td>
<td></td>
</tr>
<tr>
<td>Using Antenarrative Approaches to Investigate the Perceptions of Information Systems’ Actors Regarding Failure and Success</td>
<td>207</td>
</tr>
<tr>
<td>Lynette Drevin and Darren Dalcher</td>
<td></td>
</tr>
<tr>
<td>Towards a Unified Service Definition</td>
<td>219</td>
</tr>
<tr>
<td>George Feuerlicht and Lukas Burkon</td>
<td></td>
</tr>
<tr>
<td>A Process-Oriented Approach to Support Dynamic Evolution in Distributed Applications</td>
<td>231</td>
</tr>
<tr>
<td>Kam Hay Fung and Graham Low</td>
<td></td>
</tr>
<tr>
<td>Regulated Open Multi-Agent Systems Based on Contracts</td>
<td>243</td>
</tr>
<tr>
<td>Emilia Garcia, Adriana Giret and Vicente Botti</td>
<td></td>
</tr>
<tr>
<td>Modeling Method for Bridging Pragmatic and Semantic Dimensions of Service Architectures</td>
<td>257</td>
</tr>
<tr>
<td>Prima Gustienė and Remigijus Gustas</td>
<td></td>
</tr>
</tbody>
</table>
Automatic Tool Support for Cardinality-Based Feature Modeling with Model Constraints for Information Systems Development ........ 271
Abel Gómez and Isidro Ramos

Towards a Conceptual Model for Trustworthy Skills Profiles in Online Social Networks .................................................. 285
Till Haselmann, Axel Winkelmann and Gottfried Vossen

Nicklas Holmberg and Odd Steen

From Organization Business Model to Information System: One Approach and Lessons Learned .......................... 309
Janis Iljins and Maris Treimanis

Assessment of Ontology Development and Management Tools According to the Axioms ........................................... 321
Diana Kalibatiene and Olegas Vasilecas

Semi-Automatic Transformation of an XML Schema to XForms ........ 331
Ján Kasarda and Tomáš Bartoš

Research Directions of OLAP Personalizaton ............................... 345
Natalija Kozmina and Laila Niedrite

Extending UML with Non-functional Requirements Modelling ........ 357
Aneesh Krishna and Andreas Gregoriades

Bottleneck of the Development of Public Information Systems .......... 373
Jaroslav Král and Michal Žemlička

A Framework for Optimizing Inter-operating Business Process Portfolio ............................................................. 383
Tri A. Kurniawan, Aditya K. Ghose and Lam-Son Lê

Michael Lang

A Framework for Intention-Driven Requirements Engineering of Innovative Software Products ............................ 417
Mauri Leppänen, Juha Lamminen and Pertti Saariluoma

Using Real-Time Event Stream Framework to Develop RFID-based Retailer Supermarket Systems ...................... 429
Liao Guoqiong, William Wei Song, Shu Lei and Wan Changxuan
Having a Customer Focus in Agile Software Development .............. 441
Garry Lohan, Michael Lang and Kieran Conboy

Ontology-mediated Validation of Software Models .................... 455
Antonio A. Lopez-Lorca, Ghassan Beydoun, Leon Sterling and Tim Miller

Collaborative Media Content Management ........................... 469
András Ferenc Kovács, Gábor Magyar and Gábor Szűcs

Modification of Workflow Management System Focused on a Human ... 479
Vojtech Mates

Managing Step Changes in Information System Support:
Lessons from an Industrial Study ................................. 491
Helena McCabe, David W. Bustard, Kevin Curran and Niall Byrne

Using Agile Practices to Build Trust in an Agile Team: A Case Study ... 503
Orla McHugh, Kieran Conboy and Michael Lang

Some Reasoning Behind Conceptual Normalisation ................. 517
Martin Molhanec

Improving Component-Based WebGIS Development by Adopting
a Software Product Line Approach .................................. 527
Juan Manuel Moreno-Rivera and Elena Navarro

The Adaptation of a Web Information System: A Perspective
of Organizations ......................................................... 539
Aivars Niedrits and Laila Niedrite

Change Work in Organisations ........................................ 551
Anders G. Nilsson

Towards Understanding Contradictions in Enterprise System
Implementations—Insights from a Case Study ....................... 563
Stig Nordheim

Perceived Quality of Cloud Based Applications for
Collaborative Writing .................................................. 575
Tihomir Orehovački

From Evidence-Based to Knowledge-Based Healthcare:
A Task-Based Knowledge Management Approach .................. 587
Hamidreza Pousti, Henry Linger and Frada Burstein

Agile Support and Maintenance of IT Services .................... 597
Jaroslav Prochazka
Towards a Framework for Building Theory from ISD Practices.............. 611
Tero Päivärinta, Kari Smolander and Even Åby Larsen

Role of the Concept of Services in Business Process Management ........ 623
Vaclav Repa

A Metamodel for Modelling of Component-Based Systems with
Mobile Architecture...................................................... 635
Marek Rychlý

What Happens Before a Project Starts?—Project Start-up from the Supplier Perspective........................................ 647
Paula Savolainen, June M. Verner, Lesley P. W. Land and Graham C. Low

Fragmento: Advanced Process Fragment Library ......................... 659
David Schumm, Dimka Karastoyanova, Frank Leymann and Steve Strauch

Improving the Cold-Start Problem in User Task Automation by Using Models at Runtime........................................ 671
Estefanía Serral, Pedro Valderas and Vicente Pelechano

Integrated Approach in Management and Design of Modern Web-Based Services.................................................... 685
Jaroslav Škrabálek, Lucia Tokárová, Jiří Slabý and Tomáš Pitner

Database-Centred Approach to WFMS and DBMS Integration........... 697
Václav Slavíček

The Role of Implementation Strategy in Enterprise System Adoption............................................................ 709
Piotr Soja

Evolution-Oriented User-Centric Data Warehouse........................ 721
Darja Solodovnikova and Laila Niedrite

Change Management for Fractal Enterprises............................ 735
Renate Strazdina and Marite Kirikova

Conceptual Modelling for Requirements of Government to Citizen Service Provision................................................. 747
Lily Sun, Cleopa John Mushi and Anas Alsoud

On the Broader View of the Open Source Paradigm: The Case for Agricultural Biotechnology..................................... 759
Meredith A. Taylor, Geoffrey Black and Wita Wojtkowski
A Requirements Engineering Approach to Improving IT-business Alignment .............................................................. 771
Azmat Ullah and Richard Lai

Adapting the Lesk Algorithm for Calculating Term Similarity in the Context of Requirements Engineering .................. 781
Jürgen Vöhringer and Günther Fliedl

SysML Parametric Diagrams in Business Applications ....................... 791
Stanislaw Wrycza and Bartosz Marcinkowski

Model-Driven GUI Automation for Efficient Information Exchange Between Heterogeneous Electronic Medical Record Systems .......... 799
Xuebing Yang, Yuan Miao and Yanchun Zhang

Index ........................................................................................................ 811