Contents

ASDENCA 2015

Investigating the Potential of Capability-Driven Design and Delivery in an SME Case Study ............................................. 3
Kurt Sandkuhl

Advanced Context Processing for Business Process Execution Adjustment ............................................. 15
Jānis Grabis and Janis Stirna

Towards Systemic Risk Management in the Frame of Business Service Ecosystem ............................................. 27
Christophe Feltus, François-Xavier Fontaine, and Eric Grandry

Strategies for Capability Modelling: Analysis Based on Initial Experiences ............................................. 40
Sergio España, Jānis Grabis, Martin Henkel, Hasan Koç, Kurt Sandkuhl, Janis Stirna, and Jelena Zdravkovic

Analyzing IT Flexibility to Enable Dynamic Capabilities ............................................. 53
Mohammad Hossein Danesh and Eric Yu

COGNISE 2015

Towards Guiding Process Modelers Depending upon Their Expertise Levels ............................................. 69
Jonas Bulegon Gassen, Jan Mendling, Lucineia Heloisa Thom, and José Palazzo M. de Oliveira

How Does It Look? Exploring Meaningful Layout Features of Process Models ............................................. 81
Vered Bernstein and Pnina Soffer

Advanced Dynamic Role Resolution in Business Processes ............................................. 87
Irene Vanderfeesten and Paul Grefen

A Position Paper Proposing Behavioral Solutions to Challenges in Software Development Projects ............................................. 94
Ofira Shmueli, Nava Pliskin, and Lior Fink

To Document or Not to Document? An Exploratory Study on Developers’ Motivation to Document Code ............................................. 100
Yulia Shmerlin, Irit Hadar, Doron Kliger, and Hayim Makabee
<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>When a Paradigm is Inconsistent with Intuition: The Case of Inconsistency Management</td>
<td>107</td>
</tr>
<tr>
<td>Irit Hadar and Anna Zamansky</td>
<td></td>
</tr>
<tr>
<td>An Argument for More User-Centric Analysis of Modeling Languages’ Visual Notation Quality</td>
<td>114</td>
</tr>
<tr>
<td>Dirk van der Linden</td>
<td></td>
</tr>
<tr>
<td>DiFenSE 2015</td>
<td></td>
</tr>
<tr>
<td>Some Heuristics for Digital Business Model Configuration</td>
<td>123</td>
</tr>
<tr>
<td>Darek M. Haftor</td>
<td></td>
</tr>
<tr>
<td>Inherent Cognitive Dependencies in the Transformation of Business Models from Non-digital to Digital</td>
<td>131</td>
</tr>
<tr>
<td>Erdelina Kurti</td>
<td></td>
</tr>
<tr>
<td>Capability-as-a-Service: Investigating the Innovation Potential from a Business Model Perspective</td>
<td>137</td>
</tr>
<tr>
<td>Kurt Sandkuhl and Janis Stirna</td>
<td></td>
</tr>
<tr>
<td>Supporting Service Innovation Through a Value Development Framework</td>
<td>149</td>
</tr>
<tr>
<td>Yannick Lew Yaw Fung and Arne J. Berre</td>
<td></td>
</tr>
<tr>
<td>Designing Software Ecosystems: How to Develop Sustainable Collaborations?: Scenarios from Apple iOS and Google Android</td>
<td>161</td>
</tr>
<tr>
<td>Mahsa H. Sadi, Jiaying Dai, and Eric Yu</td>
<td></td>
</tr>
<tr>
<td>Fitness of Business Models for Digital Collaborative Platforms in Clusters: A Case Study</td>
<td>174</td>
</tr>
<tr>
<td>Luca Cremona, Aurelio Ravarini, and Gianluigi Viscusi</td>
<td></td>
</tr>
<tr>
<td>Accelerating Web-Entrepreneurship in Local Incubation Environments</td>
<td>183</td>
</tr>
<tr>
<td>Carlos Agostinho, Fenareti Lampathaki, Ricardo Jardim-Goncalves,</td>
<td></td>
</tr>
<tr>
<td>and Oscar Lazaro</td>
<td></td>
</tr>
<tr>
<td>Challenges Laying Ahead for Future Digital Enterprises: A Research Perspective</td>
<td>195</td>
</tr>
<tr>
<td>Iosif Alvertis, Panagiotis Kokkinakos, Sotirios Koussouris, Fenareti Lampathaki, John Psarras, Gianluigi Viscusi, and Christopher Tucci</td>
<td></td>
</tr>
<tr>
<td>EM 2015</td>
<td></td>
</tr>
<tr>
<td>Ontology-Driven Enterprise Modelling in Practice: Experiences from Industrial Cases</td>
<td>209</td>
</tr>
<tr>
<td>Kurt Sandkuhl, Alexander Smirnov, Nikolay Shilov, and Hasan Koç</td>
<td></td>
</tr>
</tbody>
</table>
Extending Enterprise Architectures to Capture Consumer Values:
The Case of TOGAF ......................................................... 221
  Eric-Oluf Svee and Jelena Zdravkovic

The Devil in the Details: Fine-Grained Enterprise Model Weaving ............. 233
  David Naranjo, Mario Sánchez, and Jorge Villalobos

Extending Feature Models to Express Variability in Business Process Models ......................................................... 245
  Riccardo Cognini, Flavio Corradini, Andrea Polini, and Barbara Re

Enterprise Architecture for Business Network Planning:
A Capability-Based Approach ............................................. 257
  Adel R. Bakhtiyari, Alistair Barros, and Nick Russell

Towards Flexible and Efficient Process and Workflow Support in Enterprise Modeling ................................................................. 270
  Andreas Demuth, Markus Riedl-Ehrenleitner, Roland Kretschmer,
  Peter Hehenberger, Klaus Zeman, and Alexander Egyed

RW-BPMS 2015

The Things of the Internet of Things in BPMN ............................. 285
  Sonja Meyer, Andreas Ruppen, and Lorenz Hilty

Applying Process Mining to Smart Spaces: Perspectives and Research Challenges ................................................................. 298
  Francesco Leotta, Massimo Mecella, and Jan Mendling

Factors Affecting Ocean-Going Cargo Ship Speed and Arrival Time ........ 305
  Erwin Filtz, Emanuel Sanchez de la Cerda, Mathias Weber,
  and David Zirkovits

Monitoring Batch Regions in Business Processes ............................ 317
  Tsun Yin Wong, Susanne Bülow, and Mathias Weske

TEAR 2015

Revealing Hidden Structures in Organizational Transformation –
A Case Study ........................................................................ 327
  Franz Heiser, Robert Lagerström, and Mattin Addipour

Enterprise Architecture with Executable Modelling Rules: A Case Study at the Swedish Defence Materiel Administration ................................................. 339
  Mika Cohen, Michael Minock, Daniel Oskarsson, and Björn Pelzer
XXXVI Contents

Modeling Decisions for Collaborative Enterprise Architecture Engineering . . 351
Dierk Jugel, Christian M. Schweda, and Alfred Zimmermann

Towards an Enterprise Architecture Benefits Measurement Instrument . . . . 363
Henk Plessius, Marlies van Steenbergen, and Raymond Slot

Modelling Value with ArchiMate ............................................. 375
Adina Aldea, Maria Eugenia Iacob, Jos van Hillegersberg, Dick Quartel,
and Henry Franken

Implementing Architectural Thinking: A Case Study at Commerzbank AG . . 389
Stephan Aier, Nils Labusch, and Patrick Pähler

Data Governance on EA Information Assets: Logical Reasoning
for Derived Data ................................................................. 401
Bernhard Waltl, Thomas Reschenhofer, and Florian Matthes

Success Factors for Federated Enterprise Architecture Model Management . . 413
Pouya Aleatrati Khosroshahi, Stephan Aier, Matheus Hauder,
Sascha Roth, Florian Matthes, and Robert Winter

Aligning Enterprise Architecture with Strategic Planning ..................... 426
Carlos L.B. Azevedo, Marten van Sinderen, Luís Ferreira Pires,
and João Paulo A. Almeida

Enterprise Architecture in the Age of Digital Transformation ................. 438
Zia Babar and Eric Yu

WISSE 2015

Optimizing Information Systems Security Design Based on Existing
Security Knowledge ............................................................... 447
Andreas Schilling and Brigitte Werners

Towards the ENTRI Framework: Security Risk Management Enhanced
by the Use of Enterprise Architectures .................................... 459
Nicolas Mayer, Eric Grandry, Christophe Feltus, and Elio Goettelmann

Towards the Development of a Cloud Forensics Methodology:
A Conceptual Model ......................................................... 470
Stavros Simou, Christos Kalloniatis, Haralambos Mouratidis,
and Stefanos Gritzalis

Knowledge-Based Model to Represent Security Information and Reason
About Multi-stage Attacks ...................................................... 482
Faeiz M. Alserhani
Towards the Integration of Security Transparency in the Modelling and Design of Cloud Based Systems ........................................ 495
Moussa Ouedraogo and Shareeful Islam

A Framework for Secure Migration Processes of Legacy Systems to the Cloud ................................................................. 507
Luis Márquez, David G. Rosado, Haralambos Mouratidis, Daniel Mellado, and Eduardo Fernández-Medina

An Experience Report on Scalable Implementation of DDoS Attack Detection ................................................................. 518
Sri Yogesh Dorbala, Kishore R., and Neminath Hubballi

Author Index ................................................................. 531
Advanced Information Systems Engineering Workshops
CAiSE 2015 International Workshops, Stockholm,
Sweden, June 8-9, 2015, Proceedings
Persson, A.; Stirna, J. (Eds.)
2015, XXXVII, 532 p. 128 illus., Softcover
ISBN: 978-3-319-19242-0