

Contents

DSR in Business Process Management

Assessing Process Fit in ERP Implementation Projects: A Methodological Approach.	3
<i>Marcus Fischer, David Heim, Christian Janiesch, and Axel Winkelmann</i>	
Extracting Business Objects and Activities from Labels of German Process Models.	21
<i>Philip Hake, Peter Fettke, Günter Neumann, and Peter Loos</i>	
Designing a Framework for the Development of Domain-Specific Process Modelling Languages.	39
<i>Sven Jannaber, Dennis M. Riehle, Patrick Delfmann, Oliver Thomas, and Jörg Becker</i>	

DSR in Human Computer Interaction

Analysis and Design of an mHealth Intervention for Community-Based Health Education: An Empirical Evidence of Coronary Heart Disease Prevention Program Among Working Adults	57
<i>Hoang D. Nguyen, Danny Chiang Choon Poo, Hui Zhang, and Wenru Wang</i>	
Empathic Avatars in Stroke Rehabilitation: A Co-designed mHealth Artifact for Stroke Survivors.	73
<i>Hussain M. Aljaroodi, Marc T.P. Adam, Raymond Chiong, David J. Cornforth, and Mario Minichiello</i>	
Designing Anonymous Collaboration in Computer-Supported Organizational Participation	90
<i>Thomas Wagenknecht, Olga Levina, and Christof Weinhardt</i>	
User Evaluation of Hand Gestures for Designing an Intelligent In-Vehicle Interface.	104
<i>Hessam Jahani, Hasan J. Alyamani, Manolya Kavakli, Arindam Dey, and Mark Billingham</i>	

DSR in Data Science and Business Analytics

Design and Evaluation of a System Dynamics Based Business Model Evaluation Method	125
<i>Thomas Moellers, Bastian Bansemir, Max Pretzl, and Oliver Gassmann</i>	

Towards Distributed Cognitive Expert Systems	145
<i>Schahin Tofangchi, Andre Hanelt, and Lutz M. Kolbe</i>	

DSR in Service Science

Developing Design Principles for a Crowd-Based Business Model Validation System	163
<i>Dominik Dellermann, Nikolaus Lipusch, and Philipp Ebel</i>	

Design Principles for Business-Model-based Management Methods—A Service-Dominant Logic Perspective	179
<i>Michael Blaschke, M. Kazem Haki, Uwe Riss, and Stephan Aier</i>	

Methodological Contributions

Evaluating Knowledge Types in Design Science Research: An Integrated Framework	201
<i>Jacky Akoka, Isabelle Comyn-Wattiau, Nicolas Prat, and Veda C. Storey</i>	

A Framework for Identifying Design Science Research Objectives for Building and Evaluating IT Artifacts	218
<i>Sarah Alismail, Hengwei Zhang, and Samir Chatterjee</i>	

Strategic Reading in Design Science: Let Root-Cause Analysis Guide Your Readings	231
<i>Oscar Díaz, Jeremías P. Contell, and John R. Venable</i>	

Extending CCM4DSR for Collaborative Diagnosis of Socio-Technical Problems	247
<i>Raphael D. Schilling, Stephan Aier, Maximilian Brosius, M. Kazem Haki, and Robert Winter</i>	

Domain-Specific DSR Applications

Predictive Procurement Insights: B2B Business Network Contribution to Predictive Insights in the Procurement Process Following a Design Science Research Approach	267
<i>Jan Gruenen, Christoph Bode, and Hartmut Hoehle</i>	

Budget Transparency for Monitoring Public Policies: Limits of Technology and Context	282
<i>Erico Przybilovicz, Maria Alexandra Cunha, and Angela Póvoa</i>	

Enabling Business Domain-Specific e-Collaboration: Developing Artifacts to Integrate e-Collaboration into Product Costing	296
<i>Diana Lück and Christian Leyh</i>	

Domain-Specific Reference Modeling in the Telecommunications Industry . . .	313
<i>Christian Czarnecki and Christian Dietze</i>	

Finding Evidence for Effectual Application Development on Digital Platforms	330
<i>Onkar Malgonde and Alan Hevner</i>	

GreenCrowd: An IoT-Based Smartphone App for Residential Electricity Conservation	348
<i>Olayan Alharbi and Samir Chatterjee</i>	

On the Design of Digitized Industrial Products as Key Resources of Service Platforms for Industrial Service Innovation	364
<i>Matthias M. Herterich</i>	

Emerging Themes and New Ideas

A Design Science Approach to Information Systems Education	383
<i>Göran Goldkuhl, Pär Ågerfalk, and Jonas Sjöström</i>	

Knowledge Accumulation in Design-Oriented Research: Developing and Communicating Knowledge Contributions	398
<i>Ana Paula Barquet, Lauri Wessel, and Hannes Rothe</i>	

Insights into Practitioner Design Science Research	414
<i>Tadhg Nagle, David Sammon, and Cathal Doyle</i>	

Products and Prototypes

Logistics Service Map Prototype	431
<i>Michael Glöckner, Tim Niehoff, Benjamin Gaunitz, and André Ludwig</i>	

DORA Platform: DevOps Assessment and Benchmarking	436
<i>Nicole Forsgren, Monica Chiarini Tremblay, Debra VanderMeer, and Jez Humble</i>	

DScaffolding: A Tool to Support Learning and Conducting Design Science Research	441
<i>Jeremías P. Contell, Oscar Díaz, and John R. Venable</i>	

DeProX: A Design Process Exploration Tool	447
<i>Jonas Sjöström</i>	

A Modeling Environment for Visual SWRL Rules Based on the SeMFIS Platform	452
<i>Hans-Georg Fill, Benedikt Pittl, and Gerald Honegger</i>	

brAInstorm: Intelligent Assistance in Group Idea Generation 457
 Timo Strohmann, Dominik Siemon, and Susanne Robra-Bissantz

Making Gamification Easy for the Professor: Decoupling Game
and Content with the StudyNow Mobile App 462
 *Matthias Feldotto, Thomas John, Dennis Kundisch, Paul Hensen,
 Katrin Klingsieck, and Alexander Skopalik*

Designing a Crowd Forecasting Tool to Combine Prediction Markets
and Real-Time Delphi 468
 Simon Kloker, Tim Straub, and Christof Weinhardt

Trading Stocks on Blocks - Engineering Decentralized Markets 474
 Benedikt Notheisen, Magnus Gödde, and Christof Weinhardt

Designing Live Biofeedback for Groups to Support Emotion Management
in Digital Collaboration 479
 *Michael T. Knierim, Dominik Jung, Verena Dorner,
 and Christof Weinhardt*

Design and Evaluation of a Mobile Chat App for the Open Source
Behavioral Health Intervention Platform MobileCoach 485
 *Tobias Kowatsch, Dirk Volland, Iris Shih, Dominik Rüegger,
 Florian Künzler, Filipe Barata, Andreas Filler, Dirk Büchter,
 Björn Brogle, Katrin Heldt, Pauline Gindrat,
 Nathalie Farpour-Lambert, and Dagmar l'Allemand*

Author Index 491

Designing the Digital Transformation
12th International Conference, DESRIST 2017,
Karlsruhe, Germany, May 30 – June 1, 2017,
Proceedings
Maedche, A.; vom Brocke, J.; Hevner, A. (Eds.)
2017, XVI, 492 p. 106 illus., Softcover
ISBN: 978-3-319-59143-8