## Contents

Experimental Validation of a Risk Assessment Method .......................... 1  
*Eelco Vriezekolk, Sandro Etalle, and Roel Wieringa*

Supporting the Validation of Adequacy in Requirements-Based Hazard Mitigations ........................................ 17  
*Bastian Tenbergen, Thorsten Weyer, and Klaus Pohl*

Metrics for the Evaluation of Feature Models in an Industrial Context: A Case Study at Opel .................................................. 33  
*Olesia Oliinyk, Kai Petersen, Manfred Schoelzke, Martin Becker, and Soeren Schneickert*

Modeling and Reasoning About Information Quality Requirements .......... 49  
*Mohamad Gharib and Paolo Giorgini*

Detecting and Correcting Outdated Requirements in Function-Centered Engineering of Embedded Systems ........................................ 65  
*Marian Daun, Thorsten Weyer, and Klaus Pohl*

Estimating the Implementation Risk of Requirements in Agile Software Development Projects with Traceability Metrics ......................... 81  
*Patrick Rempel and Patrick Mäder*

The Role of Catalogues of Threats and Security Controls in Security Risk Assessment: An Empirical Study with ATM Professionals ........ 98  
*Martina de Gramatica, Katsiaryna Labunets, Fabio Massacci, Federica Paci, and Alessandra Tedeschi*

Analyzing and Enforcing Security Mechanisms on Requirements Specifications .................................................. 115  
*Tong Li, Jennifer Horkoff, and John Mylopoulos*

How Artifacts Support and Impede Requirements Communication ........ 132  
*Olga Liskin*

Consonance Between Economic and IT Services: Finding the Balance Between Conflicting Requirements ......................................... 148  
*Maryam Razavian and Jaap Gordijn*

From Stakeholder Requirements to Formal Specifications Through Refinement .................................................. 164  
*Feng-Lin Li, Jennifer Horkoff, Alexander Borgida, Giancarlo Guizzardi, Lin Liu, and John Mylopoulos*
Towards More Efficient Requirements Formalization: A Study
Wenbin Li, Jane Huffman Hayes, and Miroslaw Truszczynski

The Emerging Requirement for Digital Addiction Labels
Raian Ali, Nan Jiang, Keith Phalp, Sarah Muir, and John McAlaney

Challenges of the Customer Organization’s Requirements Engineering Process in the Outsourced Environment – A Case Study
Heli Hiisilä, Marjo Kauppinen, and Sari Kujala

A Case Study Evaluation of the Guideline-Supported QUPER Model for Elicitation of Quality Requirements
Richard Berntsson Svensson and Björn Regnell

Towards Crowd-Based Requirements Engineering A Research Preview
Eduard C. Groen, Joerg Doerr, and Sebastian Adam

Functional Requirements Modelling for Interactive TV Applications
Sergio Canchi and Juan Eduardo Durán

FlexiView: A Magnet-Based Approach for Visualizing Requirements Artifacts
Parisa Ghazi, Norbert Seyff, and Martin Glinz

Requirements Engineering in the Bidding Stage of Software Projects – A Research Preview
Kai Breiner, Michael Gillmann, Axel Kalenborn, and Christian Müller

Research Preview: Supporting Requirements Feedback Flows in Iterative System Development
Eric Knauss, Andreas Andersson, Michael Rybacki, and Erik Israelsson

User-Constrained Clustering in Online Requirements Forums
Chuan Duan, Horatiu Dumitru, Jane Cleland-Huang, and Bamshad Mobasher

A Systematic Literature Review of Requirements Prioritization Criteria
Norman Riegel and Joerg Doerr

Embedding Stakeholder Values in the Requirements Engineering Process
Maaike Harbers, Christian Detweiler, and Mark A. Neerincx

Author Index

333
Requirements Engineering: Foundation for Software Quality
Fricker, S.A.; Schneider, K. (Eds.)
2015, XIV, 333 p. 63 illus., Softcover
ISBN: 978-3-319-16100-6