# Contents

## Risk Management and Inspection

Improving the Requirement Engineering Process with Speed-Reviews:
An Industrial Case Study ................................................................. 3  
*Viktor Pekar, Michael Felderer, Ruth Breu, Martin Ebner, and Albert Winkler*

Towards a Perspective-Based Usage of Mobile Failure Patterns to Focus Quality Assurance (Short Paper) .................. 20  
*Konstantin Holl, Frank Elberzhager, and Vaninha Vieira*

An Exploratory Study on Risk Estimation in Risk-Based Testing Approaches (Short Paper) .................................................. 32  
*Micaheld Felderer, Christian Haisjaclt, Viktor Pekar, and Ruth Breu*

## Change Impact Analysis and Systems Testing

Improving Manual Change Impact Analysis with Tool Support:
A Study in an Industrial Project ......................................................... 47  
*Thomas Wetzlmaier and Rudolf Ramler*

Heterogeneous Systems Testing Techniques: An Exploratory Survey .... 67  
*Ahmad Nauman Ghazi, Kai Petersen, and Jürgen Börstler*

## Software and Systems Architectures

Integrating Heterogeneous Engineering Tools and Data Models:
A Roadmap for Developing Engineering System Architecture Variants .... 89  
*Richard Mordini, Dietmar Winkler, Florian Waltersdorfer, Stefan Scheiber, and Stefan Biffl*

Evaluation of JavaScript Quality Issues and Solutions for Enterprise Application Development (Short Paper) .................. 108  
*André Nitze*

Refinement-Based Development of Software-Controlled Safety-Critical Active Medical Devices (Short Paper) ............... 120  
*Atif Mashkoor, Miklos Biro, Marton Dolgos, and Peter Timar*

## Author Index

.................................................. 133
Software Quality. Software and Systems Quality in Distributed and Mobile Environments
7th International Conference, SWQD 2015, Vienna, Austria, January 20–23, 2015, Proceedings
Winkler, D.; Biffl, S.; Bergsmann, J. (Eds.)
2015, IX, 133 p. 31 illus., Softcover
ISBN: 978-3-319-13250-1