

# Table of Contents

## Keynotes

Quality Assurance in Model-Based Software Development: Challenges and Opportunities .....	1
<i>Michel R.V. Chaudron</i>	
Quality Driven Software Architecture .....	10
<i>Peter Hruschka</i>	

## Software Product Quality

On the Benefit of Automated Static Analysis for Small and Medium-Sized Software Enterprises .....	14
<i>Mario Gleirscher, Dmitriy Golubitskiy, Maximilian Irlbeck, and Stefan Wagner</i>	

## Software Engineering Processes

BIM: A Methodology to Transform Business Processes into Software Systems .....	39
<i>Francisco J. Duarte, Ricardo J. Machado, and João M. Fernandes</i>	
Mapping RUP Roles to Small Software Development Teams (Short Paper) .....	59
<i>Pedro Borges, Paula Monteiro, and Ricardo J. Machado</i>	
Scaling Software Development Methods from Co-located to Distributed (Short Paper) .....	71
<i>Harald Klein, Eric Knauss, and Andreas Rausch</i>	

## Software Process Improvement

Improving Open Source Software Process Quality Based on Defect Data Mining .....	84
<i>Wikan Sunindyo, Thomas Moser, Dietmar Winkler, and Deepak Dhungana</i>	
The Many Forms of Process Improvement – Results of an International Survey .....	103
<i>Tom McBride and Marion Lepmets</i>	

## Component-Based Architectures

Towards Efficient Component Performance Analysis in Component Based Architectures .....	121
<i>Nabila Salmi and Malika Joualalen</i>	

## Risk Management

A Case Study on Software Risk Analysis in Medical Device Development .....	143
<i>Christin Lindholm, Jesper Pedersen Notander, and Martin Höst</i>	
Integrating Manual and Automatic Risk Assessment for Risk-Based Testing .....	159
<i>Michael Felderer, Christian Haisjackl, Ruth Breu, and Johannes Motz</i>	

## Quality Assurance and Collaboration

Inspection and Test Process Integration Based on Explicit Test Prioritization Strategies (Short Paper) .....	181
<i>Frank Elberzhager, Alla Rosbach, Jürgen Münch, and Robert Eschbach</i>	
Towards a Security and Dependability Pattern Development Technique for Resource Constrained Embedded Systems (Short Paper) .....	193
<i>Nicolas Desnos, Brahim Hamid, Christian Percebois, and Damien Gouteux</i>	
Modeling Ad-Hoc Collaboration for Automated Process Support (Short Paper) .....	205
<i>Komlan Akpédjé Kedji, Bernard Coulette, Redouane Lbath, and Mahmoud Nassar</i>	
Quality Needs Structure: Industrial Experiences in Systematically Defining Software Security Requirements (Short Paper) .....	217
<i>Christian Frühwirth and Richard Mordinyi</i>	
<b>Author Index .....</b>	<b>231</b>