

Table of Contents

SPI and Assessment

A Multi-model Workflow before Establishing an Acquisition Contract Based on CMMI-ACQ Model	1
<i>Jezreel Mejia, Mirna Muñoz, Jose A. Calvo-Manzano, Gonzalo Cuevas, and Tomás San Felú</i>	
ISO/IEC 15504-5 Best Practices for IT Service Management	14
<i>Antoni Lluís Mesquida and Antonia Mas</i>	
A Self-assessment Framework for Finding Improvement Objectives with ISO/IEC 29119 Test Standard	25
<i>Jussi Kasurinen, Per Runeson, Leah Riungu, and Kari Smolander</i>	

SPI and Implementation

Improving the Deployment of IT Service Management Processes: A Case Study	37
<i>Marko Jäntti and Julia Järvinen</i>	
A Survey on the Application of the V-Modell XT in German Government Agencies.....	49
<i>Marco Kuhrmann, Christian Lange, and André Schnackenburg</i>	
Improving Verification and Validation in the Medical Device Domain ...	61
<i>M.S. Sivakumar, Valentine Casey, Fergal McCaffery, and Gerry Coleman</i>	

SPI and Improvement Methods

The Meaning of Success for Software SMEs: An Holistic Scorecard Based Approach	72
<i>Paul Clarke and Rory V. O'Connor</i>	
Five Agile Factors: Helping Self-management to Self-reflect	84
<i>Christoph J. Stettina and Werner Heijstek</i>	
A Detailed Software Process Improvement Methodology: BG-SPI	97
<i>Banu Aysolmaz and Onur Demirörs</i>	

SPI and Organization

Motivation and Empowerment in Process Improvement	109
<i>Marion Lepmets and Eric Ras</i>	
Improvement of Innovation Management through the Enlargement of Idea Sources.....	121
<i>Martin Neumann, Andreas Riel, and Daniel Brissaud</i>	
The Usability Approach in Software Process Improvement.....	133
<i>Péter Balázs Polgár and Miklós Biró</i>	

SPI and People/Teams

A Study of Software Development Team Dynamics in SPI.....	143
<i>Shuib Basri and Rory V. O'Connor</i>	
An Empirical Investigation into Social Productivity of a Software Process: An Approach by Using the Structural Equation Modeling	155
<i>Murat Yilmaz and Rory V. O'Connor</i>	
Agile Process Improvement: Diagnosis and Planning to Improve Teamwork	167
<i>Mats Angermo Ringstad, Torgeir Dingsøy, and Nils Brede Moe</i>	

SPI and Reuse

The Tutelkan Reference Process: A Reusable Process Model for Enabling SPI in Small Settings	179
<i>Gonzalo Valdés, Marcello Visconti, and Hernán Astudillo</i>	
Process Support for Product Line Application Engineering	191
<i>Padraig O'Leary and Ita Richardson</i>	
Software Product Lines – An Agile Success Factor?.....	203
<i>Andrea Leitner and Christian Kreiner</i>	

Selected Key Notes for SPI Implementation

SPI in SMEs

Introducing Scrum in a Very Small Enterprise: A Productivity and Quality Analysis	215
<i>Edgar Caballero, Jose A. Calvo-Manzano, and Tomás San Feliu</i>	
Using ISO/IEC 29110 to Harness Process Improvement in Very Small Entities	225
<i>Rory V. O'Connor and Claude Y. Laporte</i>	

A Software Tool to Support the Integrated Management of Software Projects in Mature SMEs	236
<i>Antonia Mas and Antoni Lluís Mesquida</i>	

How Can Software SMEs Become Medical Device Software SMEs	247
<i>Fergal McCaffery, Valentine Casey, and Martin McHugh</i>	

SPI and Innovation

Towards Innovative Software Projects – Creating Environments Supporting Innovation and Improvement	259
<i>Kouichi Kishida</i>	

The Future of SPI Knowledge and Networking in Europe – A Vision ...	268
<i>Richard Messnarz, Miklós Biró, Sonja Koinig, Michael Reiner, Romana Vajde-Horvat, and Damjan Ekert</i>	

Innovation Managers 2.0: Which Competencies?	278
<i>Andreas Riel</i>	

SPI and Functional Safety

Adapting the FMEA for Safety Critical Design Processes	290
<i>Ovi Bachmann, Bernhardt Messner, and Richard Messnarz</i>	

Extending Automotive SPICE to Cover Functional Safety Requirements and a Safety Architecture	298
<i>Richard Messnarz, Ivan Sokic, Stephan Habel, Frank König, and Ovi Bachmann</i>	

Author Index	309
---------------------------	-----