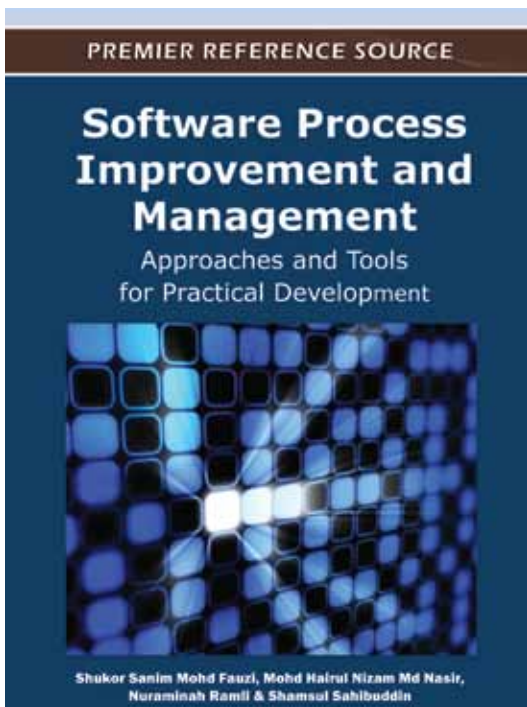


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Software Process Improvement and Management: Approaches and Tools for Practical Development



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Over the past decade, there has been an increase in attention and focus on the discipline of software engineering. Software engineering tools and techniques have been developed to gain more predictable quality improvement results. Process standards such as Capability Maturity Model Integration (CMMI), ISO 9000, Software Process Improvement and Capability dTermination (SPICE), Agile Methodologies, and others have been proposed to assist organizations to achieve more predictable results by incorporating these proven standards and procedures into their software process.

Software Process Improvement and Management: Approaches and Tools for Practical Development offers the latest research and case studies on software engineering and development. The production of new process standards assist organizations and software engineers in adding a measure of predictability to the software process. Companies can gain a decisive competitive advantage by applying these new and theoretical methodologies in real-world scenarios. Researchers, scholars, practitioners, students, and anyone interested in the field of software development and design should access this book as a major compendium of the latest research in the field.

Topics Covered:

- Agile Methodologies
- Capability Maturity Model Integration (CMMI)
- Industrial Best Practices
- Software Process Lines
- Requirement Engineering
- Software Process Assessment & Software Process Improvement
- Software Process Improvement for Very Small Enterprises
- Quality and Measurement
- CMM, CMMI, TSP and PSP
- Automated Support for Software Process

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Shukor Sanim Mohamed Fauzi serves as a Senior Lecturer at Faculty of Computer and Mathematical Sciences, Universiti Teknologi MARA, Malaysia. He received his Bachelor Science (Hons) specializing in Information Systems Engineering from the Universiti Teknologi Mara, and Master of Science (Computer Science - Real time Software Engineering) from the Centre for Advanced Software Engineering, Universiti Teknologi Malaysia. His research interests are in empirical software engineering, mining software repository, software configuration management, social network analysis, computer supportive collaborative work, and software process. He has authored and presented more than 40 papers in International and National conferences, journals, and book chapters and won several medals at national and international exhibition. In professional activity, he has involved in Technical Committee Software Engineering for Standard and Industrial Research Institute of Malaysia, a member of Software Process Improvement Network (SPIN) MSC Malaysia, Malaysia Software Engineering Interest Group (MySEIG), IEEE, ACM, and also IAENG. He also is a reviewer for several journals and committee member for international conferences.

Chapter 1

Software Process Lines:

Niazi Mahmood (Keele University, UK & King Fahd University of Petroleum and Minerals, Saudi Arabia)
Zahran Sami (Process Improvement Consultant, UK)

Chapter 2

Requirements Engineering Process Improvement and Related Models

Solemon Badariah (Universiti Tenaga Nasional, Malaysia)
Sahibuddin Shamsul (Universiti Teknologi Malaysia, Malaysia)
Ghani Abdul Azim Abd (Universiti Putra Malaysia, Malaysia)

Chapter 3

The Development of International Standards to Facilitate Process Improvements for Very Small Entities

Laporte Claude Y. (École de Technologie Supérieure, Canada)
Vargas Edgardo Palza (École de Technologie Supérieure, Canada)

Chapter 4

Quality, Improvement and Measurements in High Risk Software

Vargas Edgardo Palza (University of Ottawa, Canada)

Chapter 5

Implementing Internal Software Process Assessment:

Fauzi Shukor Sanim Mohd (Universiti Teknologi Mara, Malaysia)
Ramli Nuraminah (Universiti Pendidikan Sultan Idris, Malaysia)
Noor Mustafa Kamal Mohd (University of Malaya, Malaysia)

Chapter 6

Resistance Factors in Software Processes Improvement:

Porto Josiane Brietzke (La Salle University, Brazil)

Chapter 7

Implementation of the Personal Software Process in Academic Settings and Current Support Tools

Nasir Mohd Hairul Nizam Md (University of Malaya, Malaysia)
Alias Nur Aalyaa (Two Sigma Technologies, Malaysia)
Fauzi Shukor Sanim Mohd (Universiti Teknologi Mara, Malaysia)
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Chapter 8

Managing Software Projects with Team Software Process (TSP)

Hamid Salmiza Saul (Two Sigma Technologies, Malaysia & University of Malaya, Malaysia)
Nasir Mohd Hairul Nizam Md (University of Malaya, Malaysia)
Sahibuddin Shamsul (Universiti Teknologi Malaysia, Malaysia)
Nor Mustafa Kamal Mohd (University of Malaya, Malaysia)

Chapter 9

Software Process Improvement for Small and Very Small Enterprises

Zarour Mohammad (King Abdulaziz City for Science and Technology, Saudi Arabia)
Abran Alain (École de Technologie Supérieure, Canada)
Desharnais Jean-Marc (Bogaziçi University, Turkey)

Chapter 10

Towards an Integrated Personal Software Process and Team Software Process Supporting Tool

Choi Ho-Jin (Korea Advanced Institute of Science and Technology, South Korea)
Lee Sang-Hun (Korea Advanced Institute of Science and Technology, South Korea)
Fahmi Syed Ahsan (Korea Advanced Institute of Science and Technology, South Korea)
Ibrahim Ahmad (Korea Advanced Institute of Science and Technology, South Korea)
Shin Hyun-II (Korea Advanced Institute of Science and Technology, South Korea)
Park Young-Kyu (Korea Advanced Institute of Science and Technology, South Korea)

Chapter 11

Benefits of CMM and CMMI-Based Software Process Improvement

Abdullah Maged (University of Malaya, Malaysia)
Ahmad Rodina (University of Malaya, Malaysia)
Peck Lee Sai (University of Malaya, Malaysia)
Kasirun Zarinah Mohd (University of Malaya, Malaysia)
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