



Software Process Improvement

Umar Farooq



Software Process Improvement:

Software Process Improvement Sami Zahran, 1998 This book will help you to manage and control the quality of your organization's software products. Continually dealing with the problems caused by software defects can be both time consuming and demanding but Sami Zahran's pragmatic approach will take you from reactive fire fighting to a preventative culture of disciplined and continuous process improvement. This book will help you establish a process focused software development organization design and implement procedures for developing quality software in time and within budget benchmark your organization against the industry standards for the software process including the Capability Maturity Model CMM ISO 9001 the new standard ISO IEC 15504 originally known as SPICE and Bootstrap Software Process Definition and Management Jürgen Münch, Ove Armbrust, Martin Kowalczyk, Martín Soto, 2012-05-27 The concept of processes is at the heart of software and systems engineering. Software process models integrate software engineering methods and techniques and are the basis for managing large scale software and IT projects. High product quality routinely results from high process quality. Software process management deals with getting and maintaining control over processes and their evolution. Becoming acquainted with existing software process models is not enough though. It is important to understand how to select, define, manage, deploy, evaluate and systematically evolve software process models so that they suitably address the problems, applications and environments to which they are applied. Providing basic knowledge for these important tasks is the main goal of this textbook. Münch and his co-authors aim at providing knowledge that enables readers to develop useful process models that are suitable for their own purposes. They start with the basic concepts. Subsequently existing representative process models are introduced followed by a description of how to create individual models and the necessary means for doing so i.e. notations and tools. Lastly different possible usage scenarios for process management are highlighted e.g. process improvement and software process simulation. Their book is aimed at students and researchers working on software project management, software quality assurance and software measurement and at practitioners who are interested in process definition and management for developing, maintaining and operating software intensive systems and services.

Action Focused Assessment for Software Process Improvement Tim Kasse, 2002 This informative book is designed to help professionals involved with development of software or systems manage process improvement initiatives within their company by explaining the history, method and psychology behind AFA. *Software Process Improvement and Management: Approaches and Tools for Practical Development* Fauzi, Shukor Sanim Mohd, Nasir, Mohd Hairul Nizam Md, Ramli, Nuraminah, Sahibuddin, Shamsul, 2011-11-30 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 dEtermination 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

Critical Factors in Software Process

Improvement Umar Farooq, 2014-10-29 Seminar paper from the year 2014 in the subject Computer Science Software grade A course Software Process Improvement language English abstract The complexity of the software systems is increasing as the time is passing by the software systems are becoming more complex to be managed The Software process improvement will help in optimizing the software and minimizing the complexity of the software products So one have to take into account the software improvement factors which affect the process and go for the best solution and the best result can be achieved The Software process improvement has also proved that it will increase the quality of the product and services without considering the size of the organization Besides improving the quality products and projects it will also improve the returns on the investment

Process Improvement in Quality Management Systems Walter R. McCollum, 2004 Foreword After more than two decades since the advent of Total Quality Management one might think there was nothing left to say regarding its application but Walter Ray McCollum shows that one would be wrong Process Improvement in Quality Management Systems Case Study of Carnegie Mellon s Capability Maturity Model CMM explores how a company can obtain Level 3 compliance where an organization s processes for management and engineering activities are formally defined documented and integrated into a standard process that is understood and followed by the organization s staff in the development and maintenance of software Once an organization has reached this level it has a foundation for continuing progress New processes and tools can be added with minimal disruption and new staff members can be easily trained to adapt to the organization s practices Numerous case studies have been enacted across industries to describe successful and unsuccessful implementation of quality management systems and programs Several generic frameworks for quality management implementation have been proposed to help organizations achieve quality productivity and gain a competitive edge However few attempts have been made to synthesize frameworks for measuring quality management practices especially with regard to managing software quality Phan 2001 found the best known work concerned with process improvement was the Software Engineering Institute Capability Maturity Model CMM However very few studies have examined the effects of process improvement on quality management systems and no studies have addressed the variables that impact the effective use of SW CMM McCollom mitigates these gaps to offer software development professionals and developers of quality management

systems the information they need to enhance their effective use of SW CMM This book empowers projects teams and organizations by giving them the foundation to support reasoned choice and identify findings relative to the effects of process improvement in quality management systems using SW CMM process focus and risk management training Marilyn K Simon Ph D President Math Power

Software Process Improvement Reidar Conradi,Tore Dybå,Dag I.K. Sjøberg,Tor Ulsund,2010-10-14 For over a decade software process improvement SPI has been promoted as an approach to improve systematically the way software is developed and managed Mostly this research and the relevant experience reports have focused on large software companies This book collects the main results from four Norwegian industrial research and development projects on SPI carried out between 1996 and 2005 It concentrates on small and medium sized companies typically characterized by fast changing environments

Software Process Improvement Rory O'Connor,Nathan Baddoo,Kari Smolander,Richard Messnarz,2008-09-08 This textbook is intended for use by SPI Software Process Improvement managers and researchers quality managers and experienced project and research managers The papers constitute the research proceedings of the 15th EuroSPI European Software Process Improvement www eurospi net conference in Dublin Ireland 3 5 September 2008 Since the first conference held in Dublin in 1994 EuroSPI conferences have been held in 1995 in Vienna Austria in 1997 in Budapest Hungary in 1998 in Goth burg Sweden in 1999 in Pori Finland in 2000 in Copenhagen Denmark in 2001 in Limerick Ireland in 2002 in Nuremberg Germany in 2003 in Graz Austria in 2004 in Trondheim Norway in 2005 in Budapest Hungary in 2006 in Joensuu Finland and in 2007 in Potsdam Germany EuroSPI has established an experience library library eurospi net which will be continuously extended over the next few years and was made available to all attendees EuroSPI has also started an umbrella initiative for establishing a European Qualification Network in which different SPINs and national ventures can join mutually beneficial collaborations EQN EU Leonardo da Vinci network project With a general assembly on 15 16 10 2007 through EuroSPI partners and works in collaboration with the European Union supported by the EU Leonardo da Vinci Programme a European certification association has been created www certificates org for the IT and services sector to offer SPI knowledge and certificates to industry establishing close knowledge transfer links between research and industry

Software Process Improvement Ita Richardson,Pekka Abrahamsson,2005-11-04 This book constitutes the refereed proceeding of the 12th European Software Process Improvement Conference EuroSPI 2005 held in Budapest Hungary in November 2005 The 18 revised full papers presented were carefully reviewed and selected from 40 submissions The papers are organized in topical sections on agile methods and software issues spi studies improvement methods quality and knowledge management as well as engineering and development

Introduction to Software Process Improvement Gerard O'Regan,2011-04-08 This textbook is a systematic guide to the steps in setting up a Capability Maturity Model Integration CMMI improvement initiative Readers will learn the project management practices necessary to deliver high quality software solutions to the customer on time and on budget The text

also highlights how software process improvement can achieve specific business goals to provide a tangible return on investment Topics and features supplies review questions summaries and key topics for each chapter as well as a glossary of acronyms describes the CMMI model thoroughly detailing the five maturity levels provides a broad overview of software engineering reviews the activities and teams required to set up a CMMI improvement initiative examines in detail the implementation of CMMI in a typical organization at each of the maturity levels investigates the various tools that support organizations in improving their software engineering maturity discusses the SCAMPI appraisal methodology

Software Process Improvement Robin B. Hunter, Richard H. Thayer, 2001-12-11 The text is a collection of original and republished papers providing a significant survey on the use of SPI and software process assessment SPA as practiced by companies such as Lockheed Martin Siemens and Hewlett Packard Among the important features of the book are chapters on software process evaluation how to best perform SPI ISO 9000 and TickIT an alternative approach to SPA as well as the latest information on the CMM integration project The text also provides vivid descriptions on the most important international and national standards for SPI in particular ISO 9001 ISO 9000 3 ISO

Software Process Improvement: Metrics, Measurement, and Process Modelling Michael Haug, Eric W. Olsen, Lars Bergman, 2011-06-28 C Amting Directorate General Information Society European Commission Brussels Under the 4th Framework of European Research the European Systems and Software Initiative ESSI was part of the ESPRIT Programme This initiative funded more than 470 projects in the area of software and system process improvements The majority of these projects were process improvement experiments carrying out and taking up new development processes methods and technology within the software development process of a company In addition nodes centres of expertise European networks organisations managing local activities training and dissemination actions complemented the process improvement experiments ESSI aimed at improving the software development capabilities of European enterprises It focused on best practice and helped European companies to develop world class skills and associated technologies to build the increasingly complex and varied systems needed to compete in the marketplace The dissemination activities were designed to build a forum at European level to exchange information and knowledge gained within process improvement experiments Their major objective was to spread the message and the results of experiments to a wider audience through a variety of different channels The European Experience Exchange UR X project has been one of these dissemination activities within the European Systems and Software Initiative UR X has collected the results of practitioner reports from numerous workshops in Europe and presents in this series of books the results of Best Practice achievements in European Companies over the last few years

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Software Process Improvement Pekka Abrahamsson, 2007-09-21 This book constitutes the refereed proceeding of the 14th European Software Process Improvement Conference EuroSPI 2007 held in Potsdam Germany in September 2007 The 18 revised full papers presented together with an introductory paper were carefully reviewed and selected from 60 submissions The papers are organized in topical sections on enforcement alignment tailoring focus on SME issues improvement analysis and empirical studies new avenues of SPI SPI methodologies as well as testing and reliability

EuroSPI 2004 Torgeir Dingsøy, 2004-10-27 This book constitutes the refereed proceeding of the 11th European Software Process Improvement Conference EuroSPI 2004 held in Trondheim Norway in November 2004 The 18 revised full papers presented were carefully reviewed and selected from 31 submissions The papers are organized in topical sections on agile methods and global software development software process improvement techniques studies of software process improvement knowledge management and effort estimation

Making Process Improvement Work Neil S. Potter, Mary E. Sakry, 2002 Every development organization can benefit by paying attention to process improvement yet all too many process improvement initiatives fail to deliver on their promises In this concise book two of the field's leading consultants present easy to apply techniques for achieving rapid and quantifiable benefits and then maintaining your momentum to deliver even greater value over time Drawing on their experience with more than 3 000 developers and 100 organizations Neil S Potter and Mary E Sakry show you exactly what works and what doesn't work Next they present a step by step guide to identifying your best opportunities for process improvement deploying changes effectively and tracking your progress The book also includes a detailed example plan document designed to help you jumpstart your process improvement initiative Making Process Improvement Work includes a foreword by noted software process expert Karl Wiegers For all developers project and IT managers and clients seeking to maximize the effectiveness of the software development process and the value of the software it delivers

Software Process Improvement and Capability Determination Rory O'Connor, Terry Rout, Fergal McCaffery, Alec Dorling, 2011-05-20 This book constitutes the refereed proceedings of the 11th International Conference on Software Process Improvement and Capability Determination SPICE 2011 held in Dublin Ireland in May June 2011 The 15 revised full papers presented and 15 short papers were carefully reviewed and selected from numerous submissions The papers are organized in topical sections on process modelling and assessment safety and security medi SPICE high maturity implementation and improvement

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Improvement Eugene McGuire,1999-01-01 Software Process Improvement SPI efforts are being undertaken by organizations of all types and sizes as they attempt to deal with the challenges of quality complexity and competitiveness Software process improvement efforts rely on the successful integration of many technical organizational and methodological issues SPI has provided a rich field for both conceptual and practical research in industry and academia Software Process Improvement Concepts and Practices provides the opportunity for rich socio technical and interdisciplinary studies in addition to those studies that primarily focus on process and or enabling technology issues This book addresses numerous aspects of SPI program development implementation trends opportunities and future challenges in organizations

Software Process Improvement T. Dingsøyr,2005-01-11 This was the first year that the European Software Process Improvement Conference EuroSPI had a separate research track with its own proceedings The EuroSPI conference is in its eleventh year and has become the main meeting place in Europe for the software industry and academia to discuss software process improvement The conference deals with software process improvement in a broad sense investigating organizational issues as well as methods and tools for software process improvement Euro SPI is an initiative financed by a consortium of Nordic research centers and user networks SINTEF DELTA and STTF ASQF a German quality assurance association and ISCN in Ireland the coordinating network partner The research papers describe innovative and significant work in software process improvement which is relevant to the software industry The papers are readable for a scientific and industrial audience and support claims with appropriately described evidence or references to relevant literature Thirty one papers were submitted in this year s research track and each paper was sent to three or four members of the program committee or additional reviewers Papers were evaluated according to originality significance of the contribution quality of the written and graphical presentation research method applied and appropriateness of comparison to relevant research and literature Almost 100 reviews were received and 18 papers were selected for presentation in the research track giving a rejection rate of 42% Many high quality submissions had to be rejected because of limited space in the conference program The selected papers cover a wide area in software process improvement from proving agile development methods techniques for software process improvement and knowledge management in software companies to effort estimation and global software development

Product Focused Software Process Improvement Frank Bomarius,Seija Komi-Sirviö,2003-06-30 The Third International Conference on Product Focused Software Process Improvement PROFES 2001 continued the success of the PROFES 99 and PROFES 2000 conferences PROFES 2001 was organized in Kaiserslautern Germany September 10 13 2001 The PROFES conference has its roots in the PROFES Esprit project <http://www.ele.vtt.fi/profes> but it quickly evolved into a full fledged general purpose conference in 1999 and since then it has gained wide spread international popularity As in previous years the main theme of PROFES 2001 was professional software process improvement SPI motivated by product and service quality needs SPI is facilitated by software process assessment software measurement process modeling and technology

transfer and has become a practical tool for quality software engineering and management The conference addresses both the solutions found in practice as well as relevant research results from academia The purpose of the conference is to bring to light the most recent findings and results in the area and to stimulate discussion between the researchers experienced professionals and technology providers for SPI

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