
The Capability Maturity Model Lines For Improving The Software Process

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 CMMII Distilled
 Maximizing ROI on Software Development
 UML-Based Software Product Line Engineering with SMarty
 "Our First Line of Defense"
 Project Management Success with CMMI

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Software Product Lines CRC Press
 Maximizing ROI on Software Development explains how to execute best quality software development and testing while maximizing business value. It discusses Applied ROI in the context of methodologies such as Agile and Extreme Programming, and traditional methodologies including Six Sigma, the Capability Maturity Model® (CMM®), Total Cost of Ownership (TCO), and Product Line Models (PLM). The text discusses what is important in global terms and details how best to choose teams and partners, including outsourcers, and how to employ the latest tools and technologies. It provides models, metrics, and detailed case studies to improve current and future development projects, whether in house or outsourced, near shore or off-shore. The book offers perspectives on how quality improvement through software quality assurance (SQA) testing, planning, and execution is a powerful and effective route toward maximizing return on

investment. Divided into seven chapters, this friendly and informative guide can be read quickly, then used as a reliable reference by team leaders and members. It begins by reviewing software development, tools, and methodologies, followed by an examination of how development, maintenance, and integration have become more complex and will continue to do so. The book discusses best practices for managing this complexity and explores the business case for maximizing ROI. The text then provides a comprehensive analysis of ROI from several perspectives, covering nomenclature, project success and failure, mathematics, processes, work products, and techniques. It details how to make global teams successful and how to evaluate Applied ROI implementation, and it includes case studies for wireless, enterprise, and CRM systems.

Innovation Capability Maturity Model Springer

Transform your company's AI and data frameworks to unlock the true power of disruptive new tech In From Data to Profit: How Businesses Leverage Data to Grow Their Top and Bottom Lines, accomplished entrepreneur and AI strategist Vineet Vashishta

delivers an engaging and insightful new take on making the most of data, artificial intelligence, and technology at your company. You'll learn to change the culture, strategy, structure, and operational framework of your company to take full advantage of disruptive advances in tech. The author explores fascinating work being undertaken by firms in the real world, as well as high-value use cases and innovative projects and products made possible by realigning organizational frameworks using the capabilities of new technologies. He explains how to get everyone in your company on the same page, following a single framework, in a way that ensures individual departments get what they want and need. You'll learn to outline a comprehensive technical vision and purpose that respects departmental autonomy over their core competencies while guaranteeing that they all get the tools they need to make technology their partner. You'll also discover why firms that have adopted a holistic strategy toward AI and data have enjoyed results far beyond those experienced by those that have taken a piecemeal approach. *From Data to Profit* demonstrates the proper role of the CEO during an intensive transformation: one of maintaining culture during the change. It offers advice for organizational change, including the 3-Phase Data Organizational Development Framework, the Core - Rim 3 Main People Groups Framework, and the way to implement new roles for a Chief Digital Officer and Technical Strategist. Perfect for data professionals, data organizational leaders, and data product and process owners, *From Data to Profit* will also benefit executives, managers, and other business leaders seeking hands-on advice for digital transformation at their firms.

Object-Oriented Information Systems Springer Science & Business Media

Die Gesellschaft für Informatik veranstaltet ihre 30. Jahrestagung, die Informatik 2000, vom 19.- 22. September 2000 in Berlin. Die Jahrestagung 2000 beschäftigt sich mit den zentralen Themen "Zukunft der Informatik-Ausbildung", "Bioinformatik", "Aktuelle Trends in der Informatik" und "Softwaretechnik 2000". Neben Praxisberichten aus der Industrie finden sich Forschungsberichte namhafter aber auch junger Forscher. Die genannten Schwerpunktthemen werden durch Workshops, die im Schlußkapitel des Kongressbandes dokumentiert sind, sinnvoll ergänzt.

Proceedings CRC Press

Computerabstürze, Rückrufaktionen, Sicherheitslecks: Das Phänomen Software- Fehler hat sich zum festen Bestandteil unseres täglichen Lebens entwickelt. Mit dem unaufhaltsamen Vordringen der Computertechnik in immer mehr sicherheitskritische Bereiche wird die Software-Qualitätssicherung zu einer stetig wichtiger werdenden Disziplin der Informationstechnik. Aber warum ist die Qualität von Software heute so schlecht? Und viel wichtiger noch: Stehen wir der Misere hilflos gegenüber? Dieses Buch führt umfassend und praxisnah in das Gebiet der Software- Qualitätssicherung ein und gibt eine Antwort auf die oben gestellten Fragen. Zu Beginn werden die typischen Fehlerquellen der Programmentwicklung erörtert und anschließend die verschiedenen Methoden und Techniken behandelt, die uns zur Verbesserung der Qualität zur Verfügung stehen. Behandelt werden die zentralen Themenkomplexe aus den Gebieten der konstruktiven und analytischen Qualitätssicherung, der Software-Infrastruktur und der Managementprozesse. Die 2. Auflage wurde durchgehend aktualisiert und korrigiert.

Software Architecture and Design Illuminated IGI Global

This book covers research into the most important practices in product line organization. Contributors offer experience-based knowledge on the domain and application engineering, the modeling and management of variability, and the design and use

of tools to support the management of product line-related knowledge.

Engineering Effective Decision Support Technologies: New Models and Applications Springer Science & Business Media

This book is about software product lines (SPLs) designed and developed taking UML diagrams as the primary basis, modeled according to a rigorous approach composed of an UML profile and a systematic process for variability management activities, forming the Stereotype-based Management of Variability (SMarty) approach. The book consists of five parts. Part I provides essential concepts on SPL in terms of the first development methodologies. It also introduces variability concepts and discusses SPL architectures finishing with the SMarty approach. Part II is focused on the design, verification and validation of SMarty SPLs, and Part III concentrates on the SPL architecture evolution based on ISO/IEC metrics, the SysEM-PLA method, optimization with the MOA4PLA method, and feature interaction prevention. Next, Part IV presents SMarty as a basis for SPL development, such as, the M-SPLearning SPL for mobile learning applications, the PLeTs SPL for testing tools, the PlugSPL plugin environment for supporting the SPL life cycle, the SyMPLES approach for designing embedded systems with SysML, the SMartySPEM approach for software process lines (SPRL), and re-engineering of class diagrams into an SPL. Eventually, Part V promotes controlled experimentation in UML-based SPLs, presenting essential concepts on how to plan, conduct, and document experiments, as well as showing several experiments carried out with SMarty. This book aims at lecturers, graduate students and experienced practitioners. Lecturers might use the book for graduate level courses about SPL fundamentals and tools; students will learn about the SPL engineering process, variability management, and mass customization; and practitioners will see how to plan the transition from single-product development to an SPL-based process, how to document inherent variability in a given domain, or how to apply controlled experiments to SPLs.

Vieweg Handbuch Kraftfahrzeugtechnik Springer Nature

Die Verbesserung der Softwareentwicklung leistet einen beachtlichen Beitrag zur Wettbewerbsfähigkeit von Software-Unternehmen. Das Buch beschreibt ein Verfahren, das die Bewertung von Softwareentwicklungsprozessen mit der von Softwaretechnologien verbindet und damit die Verbesserung der Softwareentwicklung auf eine zuverlässige Grundlage stellt. Das Verfahren eröffnet zudem weitere Möglichkeiten: Es lässt sich auf unternehmensindividuelle Ziele ausrichten und schliesst einige für die Zusammenarbeit in Projekten wichtige Aspekte des Faktors "Mensch" in die Bewertung ein. Das Buch stellt zusätzlich geeignete Hilfsmittel zur Anwendung des Verfahrens zur Verfügung: ein Modell zur Bewertung von Kernprozessen der Softwareentwicklung, Vorlagen für die Beschreibung und Bewertung von Technologien, praxisrelevante Metriken zur Kontrolle der Zielerreichung und ein Vorgehensmodell zur Verbesserung der Softwareentwicklung. Umfangreiche Beispiele erleichtern das Verständnis und die Anwendung des beschriebenen Verfahrens."

Early Software Reliability Prediction John Wiley & Sons

From Business Strategy to IT Action gives companies of all sizes the tools to effectively link IT to business strategy and produce effective, actionable strategies for bottom-line results. The authors present CEOs, CFOs, CIOs, and IT managers with a powerful and accessible resource packed with such useful material as: * The Strategy-to-Bottom-Line Value Chain, which integrates the management practices relating to planning, prioritization, alignment, and assessing a company's entire IT budget * Methods for using IT Impact Management to establish IT

culture and performance models for the business/IT connection * The IT Improvement Zone, which quickly identifies where a company can focus its energies for maximum results * And much more

ROI of Software Process Improvement Springer

This book offers a selection of papers from the 2016 International Conference on Software Process Improvement (CIMPS'16), held between the 12th and 14th of October 2016 in Aguascalientes, Aguascalientes, México. The CIMPS'16 is a global forum for researchers and practitioners to present and discuss the most recent innovations, trends, results, experiences and concerns in the different aspects of software engineering with a focus on, but not limited to, software processes, security in information and communication technology, and big data. The main topics covered include: organizational models, standards and methodologies, knowledge management, software systems, applications and tools, information and communication technologies and processes in non-software domains (mining, automotive, aerospace, business, health care, manufacturing, etc.) with a clear focus on software process challenges.

Prozess- und Technologiemanagement in der

Softwareentwicklung Jones & Bartlett Learning

Computer Architecture/Software Engineering

Systems product line engineering handbook Éditions Cepaduès

The development of software system with acceptable level of reliability and quality within available time frame and budget becomes a challenging objective. This objective could be achieved to some extent through early prediction of number of faults present in the software, which reduces the cost of development as it provides an opportunity to make early corrections during development process. The book presents an early software reliability prediction model that will help to grow the reliability of the software systems by monitoring it in each development phase, i.e. from requirement phase to testing phase. Different approaches are discussed in this book to tackle this challenging issue. An important approach presented in this book is a model to classify the modules into two categories (a) fault-prone and (b) not fault-prone. The methods presented in this book for assessing expected number of faults present in the software, assessing expected number of faults present at the end of each phase and classification of software modules in fault-prone or no fault-prone category are easy to understand, develop and use for any practitioner. The practitioners are expected to gain more information about their development process and product reliability, which can help to optimize the resources used.

CMMI for Development Oldenbourg Verlag

Die Komplexität in der Fahrzeugtechnik für Mobilitätsangebote wächst. Fahrzeugingenieurinnen und -ingenieure und Personen in allen Bereichen der Mobilität benötigen in der Praxis und Ausbildung den sicheren und raschen Zugriff auf Grundlagen und Details der Fahrzeugtechnik, der Vernetzung und deren dazugehörigen industriellen Prozessen. Diese Informationen sind in der aktuellen Auflage umfassend dargestellt. Neben der Berücksichtigung der aktuellen Fortschritte der Automobile wird besonders auf die rasante Entwicklung für Hybrid- und Elektrofahrzeuge eingegangen. Daneben beeinflusst die Vernetzung der Fahrzeuge untereinander und mit der äußeren Verkehrsinfrastruktur sowie das automatisierte Fahren sehr stark die Entwicklung auf dem Mobilitätsektor. In der 8. Auflage sind viele Neuerungen auf dem Gebiet Mobilität, Verbrennungsmotor, Hybrid- und Elektroantrieb, Brennstoffzelle, Fahrzeugsicherheit, Elektrik, Elektronik und Vernetzung eingearbeitet. Die Autoren sind exzellente Fachleute der Automobil- und Zuliefererindustrie sowie der Universitäten. Sie stellen sicher, dass Theorie und

Praxis vernetzt dargestellt werden.

Software Product Lines J. Ross Publishing

This book contains the proceedings of the Fourth International Workshop on Product Family Engineering, PFE-4, held in Bilbao, Spain, October 3-5, 2001. This workshop was the fourth in a series started in 1996, with the same subject, software product-family engineering. Proceedings of the second and third workshops have been published as LNCS 1429 and LNCS 1951. The workshops were organized within co-operation projects of European industry, the first two by ARES (Esprit IV 20.477) 1995-1999. This project had three industrial and three academic partners, and focused on software architectures for product families. Some of the partners continued in ITEA project 99005,

ESAPS (1999-2001). ITEA is the software development program (?!2023) within the European Eureka initiative. ITEA projects last for two years and ESAPS' was succeeded by CAFE (ITEA ip00004), which started in 2001 and will terminate in 2003. This workshop was initially prepared within ESAPS and the preparation continued in CAFE. Due to the attacks in the USA of September 11, several people were not able to fly and therefore did not show up.

However, we have included their submissions in these proceedings. The session chair presented these submissions, and their inputs were used during the discussions. It was planned that Henk Obbink be workshop chair, and Linda Northrop and Sergio Bandinelli be co-chairs. However, because of personal circumstances Henk Obbink was not able to leave home during the workshop. Moreover both co-chairs had already enough other duties. Therefore the chairing duties were taken over by the program chair, Frank van der Linden.

Software Product Lines in Action Springer-Verlag

Use CMMI to Improve Project Management Efficiency, Effectiveness, and Accountability The Capability Maturity Model Integration (CMMI) Maturity Level 2 offers powerful, end-to-end tools for improvement throughout your organization. In *Project Management Success with CMMI®*, James Persse demonstrates exactly how to apply CMMI Level 2 to virtually any project, program, or process. User friendly, concise, and easy to follow, this book helps you implement all seven CMMI Level 2 process areas; customize CMMI for your unique projects and organization; and achieve powerful, quantifiable results. The author takes a practical approach to the business and operational needs of project management, carefully linking the realities of business and technical projects with CMMI recommendations. Drawing on his unsurpassed CMMI field experience, Persse presents case studies, anecdotes, and examples—all designed to illuminate what works and what doesn't. Persse introduces the substance and intention of all seven CMMI Level 2 process areas. For each area, he shows how to define goals, implement best practices, understand issues of sizing and scope, and avoid pitfalls and misinterpretations. He is also the first to explain how CMMI can integrate with the tools and skills of the Project Management Institute's Project Management Body of Knowledge, improving the effectiveness of both. Coverage includes Understanding project management as value management Planning projects and structuring expectations Monitoring and controlling projects Managing requirements, configurations, and supplier agreements Implementing effective measurement and analysis Assuring process and product quality *Project Management Success with CMMI®* is an invaluable resource for anyone responsible for managing projects, programs, or processes—including those who are new to CMMI and project management. The book's companion Web site (www.prenhallprofessional.com/title/0132333058) contains an extensive library of downloadable CMMI project management

resources corresponding to each of the seven CMMI process areas.

Pearson Education

CMM® HandbuchSpringer-Verlag

Applied Software Product Line Engineering Springer

David A. Sykes is a member of Wofford College's faculty.

Informatik 2000 Springer-Verlag

Note: This book is available in several languages: Chinese, German, English. Moderne IT-Manager sehen sich einer überwältigenden Anzahl von Management-Frameworks, -Methoden und -Methodiken gegenüber – was einen kaum den Wald vor lauter Bäumen sehen lässt. Darüber hinaus glauben viele Anbieter von IT-Services, dass sie nicht ernst genommen werden, wenn sie nicht ebenfalls ein proprietäres Framework zur Verfügung stellen – was es um so schwieriger macht, den Weg durch den Framework-Wald zu finden. Diese itSMF-Publikation behandelt auf eine neutrale und objektive Weise die wichtigsten, eingesetzten Frameworks, so dass der Leser den potenziellen Wert jedes dieser Instrumente besser verstehen kann. Jedes Framework wird von einem namhaften Experten im jeweiligen Feld auf strukturierte Weise beschrieben, so dass die besonderen Charakteristika herausgestellt werden. Eine einheitliche Herangehensweise für jedes Kapitel erlaubt einen einfachen Vergleich der Instrumente: der Ursprung/die Geschichte, wo das Instrument eingesetzt wird, Beschreibung und Hauptgrafiken, Ansatz/How-To, Relevanz für das IT-Management, Stärken und Schwächen, Querverweise/Beziehungen sowie Links und Literatur. Diese Auflage des itSMF Frameworks für das IT Management-Handbuchs enthält Beschreibungen von (in alphabetischer Reihenfolge) AS 8015, ASL, BiSL, CMMI, COBIT, EFQM, eSCM, eTOM, Generic Framework for Information Management (PrimaVera), IPMA Competence Baseline, ISO/IEC 20000 (früher BS15000), ISO 27001 (ISO 17799/BS7799), ISO 9000 (GB/T 19000), ISPL, IT Balanced Scorecard, ITIL®, ITS-CMM, PMBoK, PRINCE2™, M_o_R®, MSP, Six Sigma, TickIT und TQM. Frameworks für das IT-Management ist ein zuverlässiges und einheitliches Referenzhandbuch, ob es nun als erste Einführung in Frameworks, die Sie noch nicht kennengelernt haben, oder als Kurzreferenz für Kerninformationen über Ihnen bereits bekannte Frameworks genutzt wird. In jedem Fall sollte dieses Handbuch eine wertvolle Informationsquelle für moderne IT-Manager darstellen. Wir hoffen, es wird Sie darin unterstützen, den hohen Anforderungen modernen IT-Service-Managements zu entsprechen.

Frameworks für das IT Management Springer-Verlag

A Product Line is a set of products with common elements and variable features. Including Product Lines in an overall development strategy tailored to the commercial and/or industrial context delivers significant benefits: products that are more suitable, reduction in cost, shorter development timescales, quality improvement, etc. This work, Systems Product Line Engineering, brings together a summary of the state-of-the-art with lessons learnt from industrial experience in implementing Product Lines of various kinds, in terms of marketplace, number of applications, degree of variability, etc. It is resolutely practical, and is intended to complement existing Systems Engineering

manuals; indeed, it adopts the same process structures. It includes: • Definitions and examples: Product Line, Product Lines organizations, Product Line Engineering, • Processes, from needs analysis through to disposal, • Systems Engineering methods, particularly Model-Based Product Line Systems Engineering, • Organization: development in silos, development in platforms, • Implementation strategies and management processes. This work is intended for practitioners: engineers, project managers, instructors, researchers, students and developments of systems that fit into this approach. Elected IncoSE Product of the Year 2015.

CMM® Handbuch dpunkt.verlag

Over the last decade, software product line engineering (SPLE) has emerged as one of the most promising software development paradigms for increasing productivity in IT-related industries. Detailing the various aspects of SPLE implementation in different domains, Applied Software Product Line Engineering documents best practices with regard to system development. Expert contributors from academia and industry come together and focus on core asset development, product development, and management, addressing the process, technical, and organizational issues needed to meet the growing demand for information. They detail the adoption and diffusion of SPLE as a primary software development paradigm and also address technical and managerial issues in software product line engineering. Providing an authoritative perspective of the latest research and practice in SPLE, the text: Presents in-depth discussions and many industry / case studies Covers applications in various domains including automotive, business process management, and defense Organized according to the organizational, process, and technical aspects of software product lines within an organization Provides the expertise of a distinguished panel of global contributors Ever-increasing global competition coupled with a fragile world economy means that the pressure is on for software engineers and software process improvement professionals to find ways to meet the needs of expanding markets—with greater efficiency and effectiveness. This book arms readers with the insight needed to harness the power of SPLE to increase productivity, reduce time to market, and to handle the growing diversity in the quickly evolving global marketplace.

Software-Qualität Springer Science & Business Media

In modern, information-centric business environments, Decision Making Support Systems (DMSS) present a critical consideration for any organization serious about maintaining competitive advantage. Advances in information systems, knowledge management technologies, and other decision support systems necessitate a critical understanding of the latest trends and research. Engineering Effective Decision Support Technologies: New Models and Applications presents a collection of the latest research in DMSS and applies those theoretical considerations to best practices in the field. This reference includes empirical case studies and an analysis of new models and perspectives in knowledge management, promoting discussion of DMSS strategies among managers, researchers, and students of information science.

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