

## Practical Software Measurement Objective Informati

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.

This book constitutes the refereed proceedings of the 10th International Conference on Perspectives in Business Informatics Research (BIR), held in Riga, Latvia, in October 2011. The 25 full papers accepted for this volume were selected from 68 submissions. In addition, two invited papers presented at the conference are also included. The papers have been organized in topical sections on business intelligence and performance management, data and processes, ontologies, architectures, stakeholders' perspectives, Web information systems and services, and systems approach.

Dispelling much of the folklore surrounding software maintenance, Software Maintenance Success Recipes identifies actionable formulas for success based on in-depth analysis of more than 200 real-world maintenance projects. It details the set of factors that are usually present when effective software maintenance teams do their work and instructs on The 13th International Conference on Human-Computer Interaction, HCI Inter- tional 2009, was held in San Diego, California, USA, July 19/24, 2009, jointly with the Symposium on Human Interface (Japan) 2009, the 8th International Conference on Engineering Psychology and Cognitive Ergonomics, the 5th International Conference on Universal Access in Human-Computer Interaction, the Third International Conf- ence on Virtual and Mixed Reality, the Third International Conference on Internati- alization, Design and Global Development, the Third International Conference on Online Communities and Social Computing, the 5th International Conference on Augmented Cognition, the Second International Conference on Digital Human Mod- ing, and the First International Conference on Human Centered Design. A total of 4,348 individuals from academia, research institutes, industry and govern- mental agencies from 73 countries submitted contributions, and 1,397 papers that were judged to be of high scientific quality were included in the program. These papers - dress the latest research and development efforts and highlight the human aspects of design and use of computing systems. The papers accepted for presentation thoroughly cover the entire field of human-computer interaction, addressing major advances in the knowledge and effective use of computers in a variety of application areas.

Guidelines for Process Integration and Product Improvement

Project Management of Large Software-Intensive Systems

Software Process Dynamics

Proceedings of the Eighth SoMet\_09

7th International Conference, PROFES 2006, Amsterdam, The Netherlands, June 12-14, 2006, Proceedings

13th European Conference, EuroSpi 2006, Joensuu, Finland, October 11-13, 2006, Proceedings

New Trends in Software Methodologies, Tools and Techniques

**The most comprehensive General, Organic, and Biochemistry book available, Introduction to General, Organic, and Biochemistry, 11th Edition continues its tradition of a solid development of problem-solving skills, numerous examples and practice problems, along with coverage of current applications. Written by an experienced author team, they skillfully anticipate areas of difficulty and pace the book accordingly. Readers will find the right mix of general chemistry compared to the discussions on organic and biochemistry. Introduction to General, Organic, and Biochemistry, 11th Edition has clear & logical explanations of chemical concepts and great depth of coverage as well as a clear, consistent writing style which provides great readability. An emphasis on real-world aspects of chemistry makes the reader comfortable in seeing how the chemistry will apply to their career.**

**Widely considered one of the best practical guides to programming, Steve McConnell's original CODE COMPLETE has been helping developers write better software for more than a decade. Now this classic book has been fully updated and revised with leading-edge practices—and hundreds of new code samples—illustrating the art and science of software construction. Capturing the body of knowledge available from research, academia, and everyday commercial practice, McConnell synthesizes the most effective techniques and must-know principles into clear, pragmatic guidance. No matter what your experience level, development environment, or project size, this book will inform and stimulate your thinking—and help you build the high-quality code that will give your system maximum reliability and maximum creativity. Ready for the benefits of collaborative development Apply defensive programming techniques to reduce and flush out errors Exploit opportunities to refactor—or evolve—code, and do it safely Use construction practices that are right-weight for your project Debug problems quickly and effectively Resolve critical construction issues early and correctly Build quality into the beginning, middle, and end of your project**

**"Papers presented at the Eighth International Conference on New Trends in Software Methodologies, Tools and Techniques, (SoMet 09) held in Prague, Czech Republic ... from September 23rd to 25th 2009."--P. v.**

**This book includes a set of rigorously reviewed world-class manuscripts addressing and detailing state-of-the-art research projects in the areas of Computing Sciences, Software Engineering and Systems. The book presents selected papers from the conference proceedings of the International Conference on Systems, Computing Sciences and Software Engineering (SCSS 2006). All aspects of the conference were managed on-line.**

**10th International Conference, BIR 2011, Riga, Latvia, October 6-8, 2011, Proceedings**

**Demystifying the Black Art**

**Computing Handbook, Third Edition**

**11th International Conference, SPICE 2011, Dublin, Ireland, May 30 - June 1, 2011. Proceedings**

**9th International Conference, PROFES 2008, Monte Porzio Catone, Italy, June 23-25, 2008, Proceedings**

**Cost Estimation Techniques for Web Projects**

**Running the Successful Hi-tech Project Office**

*A detailed and thorough reference on the discipline and practice of systems engineering The objective of the International Council on Systems Engineering (INCOSE) Systems Engineering Handbook is to describe key process activities performed by systems engineers and other engineering professionals throughout the life cycle of a system. The book covers a wide range of fundamental system concepts that broaden the thinking of the systems engineering practitioner, such as system thinking, system science, life cycle management, specialty engineering, system of systems, and agile and iterative methods. This book also defines the discipline and practice of systems engineering for students and practicing professionals alike, providing an authoritative reference that is acknowledged worldwide. The latest edition of the INCOSE Systems Engineering Handbook: Is consistent with ISO/IEC/IEEE 15288:2015 Systems and software engineering—System life cycle processes and the Guide to the Systems Engineering Body of Knowledge (SEBoK) Has been updated to include the latest concepts of the INCOSE working groups Is the body of knowledge for the INCOSE Certification Process This book is ideal for any engineering professional who has an interest in or needs to apply systems engineering practices. This includes the experienced systems engineer who needs a convenient reference, a product engineer or engineer in another discipline who needs to perform systems engineering, a new systems engineer, or anyone interested in learning more about systems engineering.*

*Annotation: This is the complete "how to" book on establishing the Project Office (PO) as a methodology for managing today's development initiatives used by a wide variety of organizations. It provides techniques, templates and tools to help achieve maximum project control and top performance of dedicated persons, and groups.*

*Essential strategies from Harold Kerzner on measuring project management performance The maze-like path of today's projects reflects a business environment that's growing in complexity. Factors influencing projects, such as new advancements in computer technology, an unpredictable economy, and the increase in stakeholder involvement make metrics and key performance indicators (KPI) for project management an important focus. Such measures are commonly used to help an organization define and evaluate how successful it is, typically, in terms of making progress towards its long-term organizational goals. Project Management Metrics, KPIs, and Dashboards helps functional managers gain a thorough understanding of what metrics are and how they can be best implemented to gain traction in a fast-paced and diverse working atmosphere. With content aligned with PMI's PMBOK® Guide, this book offers extensive coverage on KPIs and how they may be monitored, using techniques such as business dashboards to assist in prescribing meaningful business strategies. After reading this book, functional managers will bolster their awareness of what good metrics management really entails—and be armed with the knowledge to measure performance more effectively. This book begins with basic KPI principles, helping functional managers deal with such key issues as: Successfully integrating KPIs and metrics into managing a project within a business strategy Important business dashboard techniques used in monitoring performance What is really important to different stakeholders in a project Managing resistance to change Next The book explores the key questions to ask before implementing a dashboard or reporting system. Some of these questions include: What are your needs? What is involved in integration?*

*Supply Chain Management (SCM) has always been an important aspect of an enterprise's business model and an effective supply chain network is essential to remaining competitive in a global environment. By properly managing the flow of goods and services, businesses can operate more efficiently while managing most of the workload behind-the-scenes. The Handbook of Research on Global Supply Chain Management is an in-depth reference source that covers emerging issues and relevant applications of information pertaining to supply chain management from an international perspective. Featuring coverage on topics such as the global importance of SCMs to strategies for producing an effective supply chain, this comprehensive publication is an essential resource for academics and business professionals alike interested in uncovering managerial insight and logistics solutions.*

*Proceedings of the 10th International Conference on Software Process Improvement (CIMPSI 2021)*

*Software War Stories*

*Human-Computer Interaction, New Trends*

*Software Measurement and Estimation*

*Development, Management and Evolution*

*Product-Focused Software Process Improvement*

*Software Without Borders*

*This book introduces the concept of software architecture as one of the cornerstones of software in modern cars. Following a historical overview of the evolution of software in modern cars and a discussion of the main challenges driving that evolution, Chapter 2 describes the main architectural styles of automotive software and their use in cars' software. Chapter 3 details this further by presenting two modern architectural styles, i.e. centralized and federated software architectures. In Chapter 4, readers will find a description of the software development processes used to develop software on the car manufacturers' side. Chapter 5 then introduces AUTOSAR - an important standard in automotive software. Chapter 6 goes beyond simple architecture and describes the detailed design process for automotive software using Simulink, helping readers to understand how detailed design links to high-level design."The new chapter 7 reports on how machine learning is exploited in automotive software e.g. for image recognition and how both on-board and off-board learning are applied. Next, Chapter 8 presents a method for assessing the quality of the architecture - ATAM (Architecture Trade-off Analysis Method) - and provides a simple assessment, while Chapter 9 presents an alternative way of assessing the architecture, namely by using quantitative measures and indicators. Subsequently Chapter 10 dives deeper into one of the specific properties discussed in Chapter 8 - safety - and details an important standard in that area, the ISO/IEC 26262 norm. Lastly, Chapter 11 presents a set of future trends that are currently emerging and have the potential to shape automotive software engineering in the coming years. This book explores the concept of software architecture for modern cars and is intended for both beginning and advanced software designers."It mainly aims at two different groups of audience - professionals working with automotive software who need to understand concepts related to automotive architectures, and students of software engineering or related fields who need to understand the specifics of automotive software to be able to construct cars or their components. Accordingly, the book also contains a wealth of real-world examples illustrating the concepts discussed and requires no prior background in the automotive domain. Compared to the first edition, besides the two new chapters 3 and 7 there are considerable updates in chapters 5 and 8 especially.*

*The eSourcing Capability Model for Service Providers (eSCM-SP) is the best practices model that supports sourcing organizations successfully manage and reduce their risks and improve their capabilities across the entire sourcing life-cycle. It addresses the critical issues related to IT-enabled sourcing (eSourcing) for both outsourced and in-sourced (shared services) agreements. Each of the Model's 84 Practice is distributed along three easy-to follow dimensions: Sourcing Life-cycle, Capability Area, and Capability Level, and have been applied in IT, BPO, and KPO settings. The eSCM-SP has been designed to complement existing quality models so that service providers can capitalize on their previous improvement efforts. ITIL V3 suggests that ITIL be supplemented with eSCM when service management is performed in the context of a sourcing arrangement. A series of documents comparing the eSCM-SP with other models and standards has been developed. Developed by The IT Services Qualification Center (ITSQC) and endorsed by a number of organizations including IAOP (International Association of Outsourcing Professionals), this title represents a major step forward for professionals looking to implement Best Practice within the Industry.*

*This book constitutes the refereed proceedings of the 7th International Conference on Product-Focused Software Process Improvement, PROFES 2006, held in Amsterdam, June 2006. The volume presents 26 revised full papers and 12 revised short papers together with 6 reports on workshops and tutorials. The papers constitute a balanced mix of academic and industrial aspects, organized in topical sections on decision support, embedded software and system development, measurement, process improvement, and more.*

*Innovative tools and techniques for the development and design of software systems are essential to the problem solving and planning of software solutions. Software Design and Development: Concepts, Methodologies, Tools, and Applications brings together the best practices of theory and implementation in the development of software systems. This reference source is essential for researchers, engineers, practitioners, and scholars seeking the latest knowledge on the techniques, applications, and methodologies for the design and development of software systems.*

*Code Complete*

*Software Process Improvement*

*CMMI for Development*

*4th International Conference, AVR 2017, Ugento, Italy, June 12-15, 2017, Proceedings, Part 1*

*Web Technologies: Concepts, Methodologies, Tools, and Applications*

*Automotive Software Architectures*

*Advances in Software Engineering, Education, and E-Learning*

Note: This book is available in several languages: French, English. The eSourcing Capability Model for Client Organizations (eSCM-CL) is the best practices model that enables client organizations to appraise and improve their capability to foster the development of more effective relationships and to better manage these relationships. This title helps readers successfully implement a full range of client-organization tasks, ranging from developing the organization's sourcing strategy, planning for sourcing and service provider selection, initiating an agreement with service providers, managing service delivery, and completing the agreement. The eSCM-CL has been designed to complement existing quality models and sourcing frameworks so that clients can capitalize on their previous improvement efforts and meet mandated requirements. ITIL V3 suggests that ITIL be supplemented with eSCM when service management is performed in the context of a sourcing arrangement. Developed by The IT Services Qualification Center (ITSQC) and endorsed by a number of organizations including IAOP® (International Association of Outsourcing Professionals), this title represents a major step forward for professionals looking to implement Best Practice within the Industry.

This book seeks to promote the structured, standardized and accurate use of software measurement at all levels of modern software development companies. To do so, it focuses on seven main aspects: sound scientific foundations, cost-efficiency, standardization, value-maximization, flexibility, combining organizational and technical aspects, and seamless technology integration. Further, it supports companies in their journey from manual reporting to automated decision support by combining academic research and industrial practice. When scientists and engineers measure something, they tend to focus on two different things. Scientists focus on the ability of the measurement to quantify whatever is being measured; engineers, however, focus on finding the right qualities of measurement given the designed system (e.g. correctness), the system's quality of use (e.g. ease of use), and the efficiency of the measurement process. In this book, the authors argue that both focuses are necessary, and that the two are complementary. Thus, the book is organized as a gradual progression from theories of measurement (yes, you need theories to be successful!) to practical, organizational aspects of maintaining measurement systems (yes, you need the practical side to understand how to be successful). The authors of this book come from academia and industry, where they worked together for the past twelve years. They have worked with both small and large software development organizations as researchers and as measurement program leaders and even teachers. They wrote this book to help readers define, implement, deploy and maintain company-wide measurement programs, which consist of a set of measures, indicators and roles that are built around the concept of measurement systems. Based on their experiences introducing over 40,000 measurement systems at over a dozen companies, they share essential tips and tricks on how to do it right and how to avoid common pitfalls.

When everything goes right, you end up with high-quality software in half the time for a fraction of the cost. But over 50% of offshore outsourcing projects do not achieve their cost-saving goals or timelines. . . . or just fail completely. The mistakes and missteps are costly and painful, but NOW you don't have to go there. This book shows you step-by-step how to make software development outsourcing work, from concept to completion. You'll discover how to?: Choose the right vendor quickly and confidently? Stay in control of your outsourced software development project? Achieve on-time, on-scope, and on-budget results? Fiercely protect your intellectual property? Decide when to create a subsidiary for even greater savings

CMMI® for Development (CMMI-DEV) describes best practices for the development and maintenance of products and services across their lifecycle. By integrating essential bodies of knowledge, CMMI-DEV provides a single, comprehensive framework for organizations to assess their development and maintenance processes and improve performance. Already widely adopted throughout the world for disciplined, high-quality engineering, CMMI-DEV Version 1.3 now accommodates other modern approaches as well, including the use of Agile methods, Lean Six Sigma, and architecture-centric development. CMMI® for Development, Third Edition, is the definitive reference for CMMI-DEV Version 1.3. The authors have revised their tips, included new research from researchers and industry, September 2006 Richard Messner www. eurospi. net Organization Organization Committee EuroSPI 2006 is organized by the EuroSPI partnership (www. eurospi. net)

This book constitutes the refereed proceedings of the 5th Software Quality Days Conference (SQWD) held in Vienna, Austria, in January 2013. This professional symposium and conference offers a range of comprehensive and valuable opportunities for advanced professional training, new ideas, and networking with a series of keynote speeches, professional lectures, exhibits, and tutorials. The seven scientific full papers accepted for SQWD were each peer-reviewed by three or more reviewers and selected out of 18 high-quality submissions. Further, two keynotes and six short papers on promising research directions were also presented and included in order to spark discussions between researchers and practitioners. The papers are organized into topical sections on risk management; software and systems testing; test processes; model-based development; and process improvement and measurement.

On behalf of the PROFES Organizing Committee, we are proud to present to you the proceedings of the 9th International Conference on Product-Focused Software Process Improvement (PROFES 2008) held in Frascati - Monteporzio Catone, Rome, Italy. Since 1999, PROFES has established itself as one of the recognized international process improvement conferences. The main theme of PROFES is professional so- ware process improvement (SPI) motivated by product and service quality needs. Focussing on a product to be developed, PROFES 2008 addressed both quality en- gineering and management topics including processes, methods, techniques, tools, - ganizations, and enabling SPI. Both solutions found in practice and the relevant research results from academia were presented. Domains such as the automotive and mobile applications industry are growing r- idly, resulting in a strong need for professional development and improvement. Nowadays, the majority of embedded software is developed in collaboration, and distribution of embedded software development continues to increase. Thus, PROFES 2008 addressed different development modes, roles in the value chain, stakeholders' viewpoints, collaborative development, as well as economic and quality aspects. - le development was included again as one of the themes. Since the beginning of the series of PROFES conferences, the purpose has been to bring to light the most recent findings and novel results in the area of process - vement, and to stimulate discussion among researchers, experienced professionals, and technology providers from around the world.

""This is the single best book on software quality engineering and metrics that I've encountered."" --Capers Jones, from the Foreword/Metrics and Models in Software Quality Engineering, Second Edition," is the definitive book on this essential topic of software development. Comprehensive in scope with extensive industry examples, it shows how to measure software quality and use measurements to improve the software development process. Four major categories of quality metrics and models are addressed: quality management, software reliability and projection, complexity, and customer view. In addition, the book discusses the fundamentals of measurement theory, specific quality metrics and tools, and methods for applying metrics to the software development process. New chapters bring coverage of critical topics, including: In-process metrics for software testingMetrics for object-oriented software developmentAvailability metricsMethods for conducting in-process quality assessments and software project assessmentsDos and Don'ts of Software Process Improvement, by Patrick O'TooleUsing Function Point Metrics to Measure Software Process Improvement, by Capers Jones In addition

to the excellent balance of theory, techniques, and examples, this book is highly instructive and practical, covering one of the most important topics in software development--quality engineering. 0201729156B08282002

A Step-by-step Guide to Outsourcing Your Software Development

eSourcing Capability Model for Service Providers eSCM-SP

INCOSE Systems Engineering Handbook

Software Process Improvement and Capability Determination

Computer Science and Software Engineering

5th International Conference, SQWD 2013, Vienna, Austria, January 15-17, 2013, Proceedings

Software Maintenance Success Recipes

*With the technological advancement of mobile devices, volume networking, and electronic services, Web technologies continues to play an ever-growing part of the global way of life, incorporated into cultural, economical, and organizational levels. Web Technologies: Concepts, Methodologies, Tools, and Applications (4 Volume) provides a comprehensive depiction of current and future trends in support of the evolution of Web information systems, Web applications, and the Internet. Through coverage of the latest models, concepts, and architectures, this multiple-volume reference supplies audiences with an authoritative source of information and direction for the further development of the Internet and Web-based phenomena.*

*The book describes how to manage and successfully deliver large, complex, and expensive systems that can be composed of millions of line of software code, being developed by numerous groups throughout the globe, that interface with many hardware items being developed by geographically dispersed companies, where the system also includes people, policies, constraints, regulations, and a myriad of other factors. It focuses on how to seamlessly integrate systems, satisfy the customer's requirements, and deliver within the budget and on time. The guide is essentially a "shopping list" of all the activities that could be conducted with tailoring guidelines to meet the needs of each project.*

*Computing Handbook, Third Edition: Computer Science and Software Engineering mirrors the modern taxonomy of computer science and software engineering as described by the Association for Computing Machinery (ACM) and the IEEE Computer Society (IEEE-CS). Written by established leading experts and influential young researchers, the first volume of this popular handbook examines the elements involved in designing and implementing software, new areas in which computers are being used, and ways to solve computing problems. The book also explores our current understanding of software engineering and its effect on the practice of software development and the education of software professionals. Like the second volume, this first volume describes what occurs in research laboratories, educational institutions, and private organizations to advance the effective development and use of computers and computing in today's world. Research-level survey articles provide deep insights into the computing discipline, enabling readers to understand the principles and practices that drive computing education, research, and development in the twenty-first century.*

*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.*

*Approaches and Tools for Practical Development*

*Pair Programming Illuminated*

*eSourcing Capability Model for Client Organizations - eSCM-CL*

*Handbook of Research on Social Dimensions of Semantic Technologies and Web Services*

*A Guide to Objective Program Insight*

*Concepts, Methodologies, Tools, and Applications*

*Handbook of Research on Global Supply Chain Management*

Advances in Accounting Education is a refereed, academic research annual that aims to help meet the needs of faculty members who are interested in ways to improve accounting classroom instruction at college and university levels. It publishes thoughtful, well-developed articles that are readable, relevant, and reliable.

This book presents the proceedings of four conferences: The 16th International Conference on Frontiers in Education: Computer Science and Computer Engineering + STEM (FCECS20), The 16th International Conference on Foundations of Computer Science (FCS20), The 18th International Conference on Software Engineering Research and Practice (SERP20), and The 19th International Conference on e-Learning, e-Business, Enterprise Information Systems, & e-Government (EEE20). The conferences took place in Las Vegas, NV, USA, July 27-30, 2020 as part of the larger 2020 World Congress in Computer Science, Computer Engineering, & Applied Computing (CSCE20), which features 20 major tracks. Authors include academics, researchers, professionals, and students. This book contains an open access chapter entitled, "Advances in Software Engineering, Education, and e-Learning". Presents the proceedings of four conferences as part of the 2020 World Congress in Computer Science, Computer Engineering, & Applied Computing (CSCE20). Includes the tracks Computer Engineering + STEM, Foundations of Computer Science, Software Engineering Research, and e-Learning, e-Business, Enterprise Information Systems, & e-Government; Features papers from FCECS20, FCS20, SERP20, EEE20, including one open access chapter.

Written as instruction for pair programming newbies, with practical improvement tips for those experienced with the concept, this guide explores the operational aspects and unique fundamentals of pair programming; information such as furniture set-up, pair rotation, and weeding out bad pairs. An effective, quantitative approach for estimating and managing software projects How many people do I need? When will the quality be good enough for commercial sale? Can this really be done in two weeks? Rather than relying on instinct, the authors of Software Measurement and Estimation offer a new, tested approach that includes the quantitative tools, data, and knowledge needed to make sound estimations. The text begins with the foundations of measurement, identifies the appropriate metrics, and then focuses on techniques and tools for estimating the effort needed to reach a given level of quality and performance for a software project. All the factors that impact estimations are thoroughly examined, giving you the tools needed to thoroughly adjust and improve your estimations to complete a project on time, within budget, and at an expected level of quality. This text includes several features that have proven to be successful in making the material accessible and easy to master: Simple, straightforward style and logical presentation and organization enables you to build a solid foundation of theory and techniques to tackle complex estimations \* Examples, provided throughout the text, illustrate how to use theory to solve real-world problems \* Projects, included in each chapter, enable you to apply your newfound knowledge and skills \* Techniques for effective communication of quantitative data help you convey your findings and recommendations to peers and management Software Measurement and Estimation: A Practical Approach allowing practicing software engineers and managers to better estimate, manage, and effectively communicate the plans and progress of their software projects. With its classroom-tested features, this is an excellent textbook for advanced undergraduate-level and graduate students in computer science and software engineering. An Instructor Support FTP site is available from the Wiley editorial department.

Software Estimation

Advances and Innovations in Systems, Computing Sciences and Software Engineering

New Perspectives in Software Engineering

Proceedings from FCECS20, FCS20, SERP20, and EEE20

A Guide for System Life Cycle Processes and Activities

Software Design and Development: Concepts, Methodologies, Tools, and Applications

Practical Software Measurement

The 2-volume set LNCS 10324 and 10325 constitutes the refereed proceedings of the 4th International Conference on Augmented Reality, Virtual Reality, and Computer Graphics, AVR 2017, held in Ugento, Italy, in June 2017. The 54 full papers and 24 short papers presented were carefully reviewed and selected from 112 submissions. The papers are organized in the following topical sections: virtual reality; augmented and mixed reality; computer graphics; human-computer interaction; applications of VR/AR in medicine; and applications of VR/AR in cultural heritage.

Having realistic estimates of effort at an early stage in a Web project's life is vital to the successful management of resources. The principles of the prediction process are identifying the influencing factors, gathering past project data, generating an effort prediction model, and assessing the effectiveness of such prediction model. Cost Estimation Techniques for Web Projects provides a step-by-step methodology to improving cost estimation practices for Web projects. Utilizing such techniques as stepwise regression modeling, case-base reasoning, classification and regression trees, and expert opinion, this book is a powerful tool for scholars, researchers, and practitioners in the areas of Web development, Web engineering, project management, and software engineering.

Often referred to as the "black art" because of its complexity and uncertainty, software estimation is not as difficult or puzzling as people think. In fact, generating accurate estimates is straightforward—once you understand the art of creating them. In his highly anticipated book, acclaimed author Steve McConnell unravels the mystery to successful software estimation—distilling academic information and real-world experience into a practical guide for working software professionals. Instead of arcane trappings and rigid modeling techniques, this guide highlights a proven set of procedures, understandable formulas, and heuristics that individuals and development teams can apply to their projects to help achieve estimation proficiency. Discover how to: Estimate schedule and cost—or estimate the functionality that can be delivered within a given time frame Avoid common software estimation mistakes Learn estimation techniques for your, your team, and your organization \* Estimate specific project activities—including development, management, and defect correction Apply estimation approaches to any type of project—small or large, agile or traditional Navigate the shark-infested political waters that surround project estimates When many corporate software projects are failing, McConnell shows you what works for successful software estimation.

**"This book discusses the new technologies of semantic Web, transforming the way we use information and knowledge"--Provided by publisher.**

**Project Management Metrics, KPIs, and Dashboards**

**A Practical Approach**

**13th International Conference, HCI International 2009, San Diego, CA, USA, July 19-24, 2009, Proceedings, Part 1**

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

**Perspectives in Business Informatics Research**

**Metrics and Models in Software Quality Engineering**

**Case Studies in Software Management**

A comprehensive, practical book on software management that dispels real-world issues through relevant case studies Software managers inevitably will meet obstacles while trying to deliver quality products and provide value to customers, often with tight time restrictions. The result: Software War Stories. This book provides readers with practical advice on how to handle the many issues that can arise as a software project unfolds. It utilizes case studies that focus on what can be done to establish and meet reasonable expectations as they occur in government, industrial, and academic settings. The book also offers important discussions on both traditional and agile methods as well as lean development concepts. Software War Stories: Covers the basics of management as applied to situations ranging from agile projects to large IT projects with infrastructure problems Includes coverage of topics ranging from planning, estimating, and organizing to risk and opportunity management Uses twelve case studies to communicate lessons learned by the author in practice Offers end-of-chapter exercises, sample solutions, and a blog for providing updates and answers to readers' questions Software War Stories: Case Studies in Software Management mentors practitioners, software engineers, students and more, providing relevant situational examples encountered when managing software projects and organizations.

This book is designed for professionals and students in software engineering or information technology who are interested in understanding the dynamics of software development in order to assess and optimize their own process strategies. It explains how simulation of interrelated technical and social factors can provide a means for organizations to vastly improve their processes. It is structured for readers to approach the subject from different perspectives, and includes descriptive summaries of the best research and applications.