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Perspectives and Techniques for Improving Information Technology Project Management Springer Science & Business Media

"The book provides analyses and explains some of the contradictions and apparent paradoxes of many information systems quality perspectives"--Provided by publisher.

Selected Readings on Information Technology Management: Contemporary Issues Springer
This book constitutes the thoroughly refereed post-proceedings of the Web- and Database-Related Workshops held during the NetObjectDays international conference NODE 2002, in Erfurt, Germany, in October 2002. The 19 revised full papers presented together with 3 keynote papers were carefully selected during 2 rounds of reviewing and improvement. The papers are organized in topical sections on advanced Web-services, UDDI extensions, description and classification of Web services, applications based on Web-services, indexing and accessing, Web and XML databases, mobile devices and the Internet, and XML query languages.

Data Warehousing and Mining: Concepts, Methodologies, Tools, and Applications Artech House
Computer science graduates often find software engineering knowledge and skills are more in demand after they join the industry. However, given the lecture-based curriculum present in academia, it is not an easy undertaking to deliver industry-standard knowledge and skills in a software engineering classroom as such lectures hardly engage or convince students. Overcoming Challenges in Software Engineering Education: Delivering Non-Technical Knowledge and Skills combines recent advances and best practices to improve the curriculum of software engineering education. This book is an essential reference source for researchers and educators seeking to bridge the gap between industry expectations and what academia can provide in software engineering education.

Project Management the Agile Way Prentice Hall Professional
Software is continuously increasing in complexity. Paradigmatic shifts and new development frameworks make it easier to implement software – but not to test it. Software testing remains to be a topic with many open questions with regard to both technical low-level aspects and to the organizational embedding of testing. However, a desired level of software quality cannot be achieved by either choosing a technical procedure or by optimizing testing processes. In fact, it requires a holistic approach.This Brief summarizes the current knowledge of software testing and introduces three current research approaches. The base of knowledge is presented comprehensively in scope but concise in length; thereby the volume can be used as a reference. Research is highlighted from different points of view. Firstly, progress on developing a tool for automated test case generation (TCG) based on a program ’ s structure is introduced. Secondly, results from a project with industry partners on testing best practices are highlighted. Thirdly, embedding testing into e-assessment of programming exercises is described.

Smart Data and Computational Intelligence Addison-Wesley Professional
This book gathers the proceedings of the International Conference on Advanced Information Technology, Services and Systems (AIT2S-18), which was held in Mohammedia, Morocco on October 17-18, 2018. Presenting the latest research in the fields of Modern Information Engineering Concepts and Communication Systems, the book will also be of interest to those working in emerging fields such as Advances in Networking and Sensor Networks, Advances in Software Engineering, Multimedia Systems, E-learning, Big Data, Intelligent Information Systems and Advances in Natural Language Processing.

Software Engineering Mary Kathryn Thompson
Perspectives and Techniques for Improving Information Technology Project Management discusses the variety of information systems and how it can improve project management and, likewise, how project management can affect the growth of information systems. Using new frameworks, technologies and methods, this comprehensive collection is useful for professionals, researchers and software developers interested in learning more on this emerging field.

Introduction to LabVIEW FPGA for RF, Radar, and Electronic Warfare Applications John Wiley & Sons

Real-time testing and simulation of open- and closed-loop radio frequency (RF) systems for signal generation, signal analysis and digital signal processing require deterministic, low-latency, high-throughput capabilities afforded by user reconfigurable field programmable gate arrays (FPGAs). This comprehensive book introduces LabVIEW FPGA, provides best practices for multi-FPGA solutions, and guidance for developing high-throughput, low-latency FPGA based RF systems. Written by a recognized expert with a wealth of real-world experience in the field, this is the first book written on the subject of FPGAs for radar and other RF applications.

Practical Model-Based Systems Engineering IGI Global
Written for the undergraduate, 1-term course, Essentials of Software Engineering provides students with a systematic engineering approach to software engineering principles and methodologies.

Software Testing CRC Press
Instrument Engineers' Handbook - Volume 3: Process Software and Digital Networks, Fourth Edition is the latest addition to an enduring collection that industrial automation (AT) professionals often refer to as the "bible." First published in 1970, the entire handbook is approximately 5,000 pages, designed as standalone volumes that cover the measurement (Volume 1), control (Volume 2), and software (Volume 3) aspects of automation. This fourth edition of the third volume provides an in-depth, state-of-the-art review of control software packages used in plant optimization, control, maintenance, and safety.

Each updated volume of this renowned reference requires about ten years to prepare, so revised installments have been issued every decade, taking into account the numerous developments that occur from one publication to the next. Assessing the rapid evolution of automation and optimization in control systems used in all types of industrial plants, this book details the wired/wireless communications and software used. This includes the ever-increasing number of applications for intelligent instruments, enhanced networks, Internet use, virtual private networks, and integration of control systems with the main networks used by management, all of which operate in a linked global environment. Topics covered include: Advances in new displays, which help operators to more quickly assess and respond to plant conditions Software and networks that help monitor, control, and optimize industrial processes, to determine the efficiency, energy consumption, and profitability of operations Strategies to counteract changes in market conditions and energy and raw material costs Techniques to fortify the safety of plant operations and the security of digital communications systems This volume explores why the holistic approach to integrating process and enterprise networks is convenient and efficient, despite associated problems involving cyber and local network security, energy conservation, and other issues. It shows how firewalls must separate the business (IT) and the operation (automation technology, or AT) domains to guarantee the safe function of all industrial plants. This book illustrates how these concerns must be addressed using effective technical solutions and proper management policies and practices. Reinforcing the fact that all industrial control systems are, in general, critically interdependent, this handbook provides a wide range of software application examples from industries including: automotive, mining, renewable energy, steel, dairy, pharmaceutical, mineral processing, oil, gas, electric power, utility, and nuclear power.

Project Management with the IBM Rational Unified Process J. Ross Publishing
To meet the needs of today, engineered products and systems are an important element of the world economy, and each year billions of dollars are spent to develop, manufacture, operate, and maintain various types of products and systems around the globe. This book integrates and combines three of those topics to meet today’s needs for the engineers working in these fields. This book provides a single volume that considers reliability, maintainability, and safety when designing new products and systems. Examples along with their solutions are placed at the end of each chapter to test readers’ comprehension. The book is written in a manner that readers do not need any previous knowledge of the subject, and many references are provided. This book is also useful to many people, including design engineers, system engineers, reliability specialists, safety professionals, maintainability engineers, engineering administrators, graduate and senior undergraduate students, researchers, and instructors.
Improving Software Testing Springer Science & Business Media
"This book presents quality articles focused on key issues concerning the management and utilization of information technology"--Provided by publisher.

Node 2002 Cambridge University Press
???The importance of benchmarking in the service sector is well recognized as it helps in continuous improvement in products and work processes. Through benchmarking, companies have strived to implement best practices in order to remain competitive in the product- market in which they operate. However studies on benchmarking, particularly in the software development sector, have neglected using multiple variables and therefore have not been as comprehensive. Information Theory and Best Practices in the IT Industry fills this void by examining benchmarking in the business of software development and studying how it is affected by development process, application type, hardware platforms used, and many other variables. Information Theory and Best Practices in the IT Industry begins by examining practices of benchmarking productivity and critically appraises them. Next the book identifies different variables which affect productivity and variables that affect quality, developing useful equations that explaining their relationships. Finally these equations and findings are applied to case studies. Utilizing this book, practitioners can decide about what emphasis they should attach to different variables in their own companies, while seeking to optimize productivity and defect density.
Developing and Enhancing Teamwork in Organizations John Wiley & Sons
Project Management the Agile Way was written for experienced project managers, architects and systems analysts who are comfortable in traditional methods of project management but now need to learn about agile methods for software projects and understand how to make agile work effectively in the enterprise. The methodologies included under the agile umbrella go by many names such as Scrum, XP, Crystal and EVO, to name a few. Project managers will gain practical day-to-day tips and advice on how to apply these practices to mainstream projects and how to integrate these methods with other methodologies used in the enterprise. Key Features: • Offers a review of most of the popular agile and iterative methodologies for project management • Presents practical tips and application advice for how to harmonize agile and iterative methods with mainstream project processes • Describes how earned value can work with non-traditional methods • Explains how to scale agile and iterative methods for enterprise projects • Shows the means to contract and outsource with agile and iterative methods •

Provides guidance to build a business case and track post-project benefits

Information Theory and Best Practices in the IT Industry IGI Global

This text provides a comprehensive, but concise introduction to software engineering. It adopts a methodical approach to solving software engineering problems proven over several years of teaching, with outstanding results. The book covers concepts, principles, design, construction, implementation, and management issues of software systems. Each chapter is organized systematically into brief, reader-friendly sections, with itemization of the important points to be remembered. Diagrams and illustrations also sum up the salient points to enhance learning. Additionally, the book includes a number of the author's original methodologies that add clarity and creativity to the software engineering experience, while making a novel contribution to the discipline. Upholding his aim for brevity, comprehensive coverage, and relevance, Foster's practical and methodical discussion style gets straight to the salient issues, and avoids unnecessary topics and minimizes theoretical coverage.

Extreme Programming and Agile Methods - XP/Agile Universe 2002 IGI Global

In 2007 INTEROP-VLab defined Enterprise Interoperability as "the ability of an enterprise system or application to interact with others at a low cost with a flexible approach". Enterprise Interoperability VI brings together a peer reviewed selection of over 40 papers, ranging from academic research through case studies to industrial and administrative experience of interoperability. It shows how, in a scenario of globalised markets, the capacity to cooperate with other firms efficiently becomes essential in order to remain in the market in an economically, socially and environmentally cost-effective manner, and that the most innovative enterprises are beginning to redesign their business model to become interoperable. This goal of interoperability is vital, not only from the perspective of the individual enterprise but also in the new business structures that are now emerging, such as supply chains, virtual enterprises, interconnected organisations or extended enterprises, as well as in mergers and acquisitions. Establishing efficient and relevant collaborative situations requires managing interoperability from a dynamic perspective: a relevant and efficient collaboration of organizations might require adaptation to remain in line with potentially changing objectives, evolving resources, and unexpected events, for example. Many of the papers contained in this, the seventh volume of Proceedings of the I-ESA Conferences have examples and illustrations calculated to deepen understanding and generate new ideas. The I-ESA'14 Conference is jointly organised by Ecole des Mines Albi-Carmaux, on behalf of PGSO, and the European Virtual Laboratory for Enterprise Interoperability (INTEROP-VLab) and supported by the International Federation for Information Processing (IFIP). A concise reference to the state of the art in systems interoperability, Enterprise Interoperability VI will be of great value to engineers and computer scientists working in manufacturing and other process industries and to software engineers and electronic and manufacturing engineers working in the academic environment.

Software Testing in the Cloud: Perspectives on an Emerging Discipline Springer Science & Business Media

Originally published: Upper Saddle River, NJ: Addison-Wesley, 2006 under title: Software engineering with Microsoft Visual studio team system.

Overcoming Challenges in Software Engineering Education: Delivering Non-Technical Knowledge and Skills John Wiley & Sons

A practical, step-by-step guide to total systems management Systems Engineering Management, Fifth Edition is a practical guide to the tools and methodologies used in the field. Using a "total systems management" approach, this book covers everything from initial establishment to system retirement, including design and development, testing, production, operations, maintenance, and support. This new edition has been fully updated to reflect the latest tools and best practices, and includes rich discussion on computer-based modeling and hardware and software systems integration. New case studies illustrate real-world application on both large- and small-scale systems in a variety of industries, and the companion website provides access to bonus case studies and helpful review checklists. The provided instructor's manual eases classroom integration, and updated end-of-chapter questions help reinforce the material. The challenges faced by system engineers are candidly addressed, with full guidance toward the tools they use daily to reduce costs and increase efficiency. System Engineering Management integrates industrial engineering, project management, and leadership skills into a unique emerging field. This book unifies these different skill sets into a single step-by-step approach that produces a well-rounded systems engineering management framework. Learn the total systems lifecycle with real-world applications Explore cutting edge design methods and technology Integrate software and hardware systems for total SEM Learn the critical IT principles that lead to robust systems Successful systems engineering managers must be capable of leading teams to produce systems that are robust, high-quality, supportable, cost effective, and responsive. Skilled, knowledgeable professionals are in demand across engineering fields, but also in industries as diverse as healthcare and communications. Systems Engineering Management, Fifth Edition provides practical, invaluable guidance for a nuanced field.

Starting Digital Signal Processing in Telecommunication Engineering Springer

- Master win-win techniques for managing outsourced and offshore projects, from procurement and risk mitigation to maintenance
- Use RUP to implement best-practice project management throughout the software development lifecycle
- Overcome key management challenges, from changing requirements to managing user expectations

The Hands-On, Start-to-Finish Guide to Managing Software Projects with the IBM® Rational Unified Process® This is the definitive guide to managing software development projects with the IBM Rational Unified Process (RUP®). Drawing on his extensive experience managing projects with the RUP, R. Dennis Gibbs covers the entire development lifecycle, from planning and requirements to post-mortems and system maintenance. Gibbs offers especially valuable insights into using the RUP to manage outsourced projects and any project relying on distributed development

teams-outsourced, insourced, or both. This "from the trenches" guidebook is invaluable for anyone interested in best practices for managing software development: project managers, team leaders, procurement and contracting specialists, quality assurance and software process professionals, consultants, and developers. If you're already using the RUP, Gibbs will help you more effectively use it. Whatever your role or the RUP experience, you'll learn ways to

- Simplify and streamline the management of any large-scale or outsourced project
- Overcome the challenges of using the RUP in software project management
- Optimize software procurement and supplier relationships, from Request for Proposals (RFPs) and contracts to delivery
- Staff high-performance project teams and project management offices
- Establish productive, consistent development environments
- Run effective project kickoffs
- Systematically identify and mitigate project risks
- Manage the technical and business challenges of changing requirements
- Organize iterations and testing in incremental development processes
- Transition new systems into service: from managing expectations to migrating data
- Plan system maintenance and implement effective change control
- Learn all you can from project post-mortems—and put those lessons into practice

Software Design and Development: Concepts, Methodologies, Tools, and Applications Springer Science & Business Media

This is the first book ever published on the problems of true triaxial testing of rocks addressing all aspects of true triaxial testing of rocks, including: (i) true triaxial testing techniques and procedures; (ii) test results: strength, deformability, failure mode, permeability, acoustic emission, and elastic wave velocity; (iii) constitutive laws and failure criteria; and (iv) applications to geoengineering and geosciences. Recent developments in the field of true triaxial testing of rocks are presented, as well as a thorough review of the most important achievements in the whole history of true triaxial testing of rocks. Almost all researchers from around the world engaged in the true triaxial testing of rocks over the last three decades have contributed to this work. The authors originate from different branches of geoengineering and geosciences, including civil engineering, engineering geology, geotechnical engineering, mining engineering, petroleum engineering, seismology, and tectonophysics.

A First Course in Computational Physics and Object-Oriented Programming with C++ Hardback with CD-ROM IGI Global

This book describes a maximally simple market risk model that is still practical and main risk measures like the value-at-risk and the expected shortfall. It outlines the model's (i) underlying math, (ii) daily operation, and (iii) implementation, while stripping away statistical overhead to keep the concepts accessible. The author selects and weighs the various model features, motivating the choices under real-world constraints, and addresses the evermore important handling of regulatory requirements. The book targets not only practitioners new to the field but also experienced market risk operators by suggesting useful data analysis procedures and implementation details. It furthermore addresses market risk consumers such as managers, traders, and compliance officers by making the model behavior intuitively transparent. A very useful guide to the theoretical and practical aspects of implementing and operating a risk-monitoring system for a mid-size financial institution. It sets a common body of knowledge to facilitate communication between risk managers, computer and investment specialists by bridging their diverse backgrounds. Giovanni Barone-Adesi – Professor, Università della Svizzera italiana This unassuming and insightful book starts from the basics and plainly brings the reader up to speed on both theory and implementation. Shane Hegarty – Director Trade Floor Risk Management, Scotiabank Visit the book's website at www.value-at-risk.com.