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Engineering Project Management A Complete Guide - 2020 Edition-Gerardus Blokdyk 2020-05-08 How do you improve your likelihood of success ? Will Engineering project management deliverables need to be tested and, if so, by whom? What should be considered when identifying available resources, constraints, and deadlines? Is there an opportunity to verify requirements? What qualifications are needed? Defining, designing, creating, and implementing a process to solve a challenge or meet an objective is the most valuable role... In EVERY group, company, organization and department. Unless you are talking a one-time, single-use project, there should be a process. Whether that process is managed and implemented by humans, AI, or a combination of the two, it needs to be designed by someone with a complex enough perspective to ask the right questions. Someone capable of asking the right questions and step back and say, 'What are we really trying to accomplish here? And is there a different way to look at it?' This Self-Assessment empowers people to do just that - whether their title is entrepreneur, manager, consultant, (Vice-)President, CxO etc... - they are the people who rule the future. They are the person who asks the right questions to make Engineering Project Management investments work better. This Engineering Project Management All-Inclusive Self-Assessment enables You to be that person. All the tools you need to an in-depth Engineering Project Management Self-Assessment. Featuring 942 new and updated case-based questions, organized into seven core areas of process design, this Self-Assessment will help you identify areas in which Engineering Project Management improvements can be made. In using the questions you will be better able to: - diagnose Engineering Project Management projects, initiatives, organizations, businesses and processes using accepted diagnostic standards and practices - implement evidence-based best practice strategies aligned with overall goals - integrate recent advances in Engineering Project Management and process design strategies into practice according to best practice guidelines Using a Self-Assessment tool known as the Engineering Project Management Scorecard, you will develop a clear picture of which Engineering Project Management areas need attention. Your purchase includes access details to the Engineering Project Management self-assessment dashboard download which gives you your dynamically prioritized projects-ready tool and shows your organization exactly what to do next. You will receive the following contents with New and Updated specific criteria: - The latest quick edition of the book in PDF - The latest complete edition of the book in PDF, which criteria correspond to the criteria in... - The Self-Assessment Excel Dashboard - Example pre-filled Self-Assessment Excel Dashboard to get familiar with results generation - In-depth and specific Engineering Project Management Checklists - Project management checklists and templates to assist with implementation INCLUDES LIFETIME SELF ASSESSMENT UPDATES Every self assessment comes with Lifetime Updates and Lifetime Free Updated Books. Lifetime Updates is an industry-first feature which allows you to receive verified self assessment updates, ensuring you always have the most accurate information at your fingertips.

Project Reliability Engineering-Eyal Shahar 2019-09-28 Turn your projects from a weekend hack to a long-living creation! Loosely drawing from the field known in large software companies as Site Reliability Engineering (SRE), this book distills from these disciplines and addresses issues that matter to makers: keeping projects up and running, and providing means to control, monitor, and troubleshoot them. Most examples use the Raspberry Pi, but the techniques discussed apply to other platforms as well. This book is all about breadth, and in the spirit of making, it visits different technologies as needed. However, the big goal in this book is to create a shift in the reader's mindset, where weekend hacks are pushed to the next level and are treated as products to be deployed. In that regard, this book can be a stepping stone for hobbyist makers into developing a broader, professional skill set. First, the book describes techniques for creating web-browser based dashboards for projects. These allow project creators to monitor, control, and troubleshoot their projects in real-time. Project Reliability Engineering discusses various aspects of the process of creating a web dashboard, such as network communication protocols, multithreading, and web design, and data visualization. Later chapters cover configuration of the project and the machine it's running on, and additional techniques for project monitoring and diagnosis. These include good logging practices; automatic log and metrics monitoring; and alerting via email and text messages; A mixture of advanced concepts forms the last chapter of the book, touching on topics such as usage of microservices in complex projects; debugging techniques for object-oriented projects; and fail-safing the project's software and hardware. What You'll Learn Monitor and control projects, keep them up and running, and troubleshoot them efficiently Get acquainted with available tools and libraries, and learn how to make your own tools Expand your knowledge in Python, JavaScript and Linux Develop deeper understanding of web technologies Design robust and complex systems Who This Book Is For Members of the maker community with some development skills.

Case Studies in Project, Program, and Organizational Project Management-Dragan Z. Milosevic 2011-08-17 The ever expanding market need for information on how to apply project management principles and the PMBOK® contents to day-to-day business situations has been met by our case studies book by Harold Kerzner. That book was a spin-off from and ancillary to his best selling text but has gained a life of its own beyond adopters of that textbook. All indications are that the market is hungry for more cases while our own need to expand the content we control, both in-print and online would benefit from such an expansion of project management "case content". The authors propose to produce a book of cases that compliment Kerzner's book. A book that offers cases beyond the general project management areas and into PMI®'s growth areas of program management and organizational project management. The book will be structured to follow the PMBOK in coverage so that it can not only be used to supplement project management courses, but also for self sudy and training courses for the PMP® Exam. (PMI, PMBOK, PMP, and Project Management Professional are registered marks of the Project Management Institute, Inc.)

Rethinking Productivity in Software Engineering-Caitlin Sadowski 2019-05-07 Get the most out of this foundational reference and improve the productivity of your software teams. This open access book collects the wisdom of the 2017 "Dagstuhl" seminar on productivity in software engineering, a meeting of community leaders, who came together with the goal of rethinking traditional definitions and measures of productivity. The results of their work, Rethinking Productivity in Software Engineering, includes chapters covering definitions and core concepts related to productivity, guidelines for measuring productivity in specific contexts, best practices and pitfalls, and theories and open questions on productivity. You'll benefit from the many short chapters, each offering a focused discussion on one aspect of productivity in software engineering. Readers in many fields and industries will benefit from their collected work. Developers wanting to improve their personal productivity, will learn effective strategies for overcoming common issues that interfere with progress. Organizations thinking about building internal programs for measuring productivity of programmers and teams will learn best practices from industry and researchers in measuring productivity. And researchers can leverage the conceptual frameworks and rich body of literature in the book to effectively pursue new research directions. What You'll LearnReview the definitions and dimensions of software productivity See how time management is having the opposite of the intended effect Develop valuable dashboards Understand the impact of sensors on productivity Avoid software development waste Work with human-centered methods to measure productivity Look at the intersection of neuroscience and productivity Manage interruptions and context-switching Who Book Is For Industry developers and those responsible for seminar-style courses that include a segment on software developer productivity. Chapters are written for a generalist audience, without excessive use of technical terminology.

Cooperative Design, Visualization, and Engineering-Yuhua Luo 2018-09-21 This book constitutes the refereed proceedings of the 15th International Conference on Cooperative Design, Visualization, and Engineering, CDVE 2018, held in Hangzhou, China, in October 2018. The 34 full papers presented in this book together with 15 short papers were carefully reviewed and selected from 75 submissions. The papers cover a broad range of topics in the field of cooperative visualization; cooperative design; cooperative engineering; basic theories, methods and technologies that support CDVE; and cooperative applications.

Encyclopedia of Software Engineering Three-Volume Set (Print)-Phillip A. Laplante 2010-11-22 Software engineering requires specialized knowledge of a broad spectrum of topics, including the construction of software and the platforms, applications, and environments in which the software operates as well as an understanding of the people who build and use the software. Offering an authoritative perspective, the two volumes of the Encyclopedia of Software Engineering cover the entire multidisciplinary scope of this important field. More than 200 expert contributors and reviewers from industry and academia across 21 countries provide easy-to-read entries that cover software requirements, design, construction, testing, maintenance, configuration management, quality control, and software engineering management tools and methods. Editor Phillip A. Laplante uses the most universally recognized definition of the areas of relevance to software engineering, the Software Engineering Body of Knowledge (SWEBOK®), as a template for organizing the material. Also available in an electronic format, this encyclopedia supplies software engineering students, IT professionals, researchers, managers, and scholars with unrivaled coverage of the topics that encompass this ever-changing field. Also Available Online This Taylor & Francis encyclopedia is also available through online subscription, offering a variety of extra benefits for researchers, students, and librarians, including: Citation tracking and alerts Active reference linking Saved searches and marked lists HTML and PDF format options Contact Taylor and Francis for more information or to inquire about subscription options and print/online combination packages. US: (Tel) 1.888.318.2367; (E-mail) e-reference@taylorandfrancis.com International: (Tel) +44 (0) 20 7017 6062; (E-mail) online.sales@tandf.co.uk

Project Management for Business, Engineering, and Technology-John M. Nicholas 2008 Appropriate for classes on the management of service, product, and engineering projects, this book encompasses the full range of project management, from origins, philosophy, and methodology to actual applications.

Project Management for Engineering, Business and Technology-John M. Nicholas 2017-01-20 Project Management for Engineering, Business and Technology, 5th edition, addresses project management across all industries. First covering the essential background, from origins and philosophy to methodology, the bulk of the book is dedicated to concepts and techniques for practical application. Coverage includes project initiation and proposals, scope and task definition, scheduling, budgeting, risk analysis, control, project selection and portfolio management, program management, project organization, and all-important "people" aspects—project leadership, team building, conflict resolution and stress management. The Systems Development Cycle is used as a framework to discuss project management in a variety of situations, making this the go-to book for managing virtually any kind of project, program or task force. The authors focus on the ultimate purpose of project management—to unify and integrate the interests, resources and work efforts of many stakeholders, as well as the planning, scheduling, and budgeting needed to accomplish overall project goals. This new edition features: Updates throughout to cover the latest developments in project management methodologies New examples and 18 new case studies throughout to help students develop their understanding and put principles into practice A new chapter on agile project management and lean Expanded coverage of program management, stakeholder engagement, buffer management, and managing virtual teams and cultural differences in international projects Alignment with PMBOK terms and definitions for ease of use alongside PMI certifications Cross-reference to IPMA, APM, and PRINCE2 methodologies Extensive instructor support materials, including an Instructor's Manual, PowerPoint slides, answers to chapter review questions, problems and cases, and a test bank of questions. Taking a technical yet accessible approach, Project Management for Business, Engineering and Technology, 5th edition, is an ideal resource and reference for all advanced undergraduate and graduate students in project management courses as well as for practicing project managers across all industry sectors.

Software Engineering-Eric J. Braude 2016-03-09 Today's software engineer must be able to employ more than one kind of software process, ranging from agile methodologies to the waterfall process, from highly integrated tool suites to refactoring and loosely coupled tool sets. Braude and Bernstein's thorough coverage of software engineering perfects the reader's ability to efficiently create reliable software systems, designed to meet the needs of a variety of customers. Topical highlights . . . • Process: concentrates on how applications are planned and developed • Design: teaches software engineering primarily as a requirements-to-design activity • Programming and agile methods: encourages software engineering as a code-oriented activity • Theory and principles: focuses on foundations • Hands-on projects and case studies: utilizes active team or individual project examples to facilitate understanding theory, principles, and practice In addition to knowledge of the tools and techniques available to software engineers, readers will grasp the ability to interact with customers, participate in multiple software processes, and express requirements clearly in a variety of ways. They will have the ability to create designs flexible enough for complex, changing environments, and deliver the proper products.

Evaluation of Novel Approaches to Software Engineering-Leszek A. Maciaszek 2015-12-09 This book constitutes the thoroughly refereed proceedings of the 9th International Conference on Evaluation of Novel Approaches to Software Engineering, ENASE 2014, held in Lisbon, Portugal, in April 2014. The 11 full papers presented were carefully reviewed and selected from 58 submissions. The papers reflect a growing effort to increase the dissemination of new results among researchers and professionals related to evaluation of novel approaches to software engineering. By comparing novel approaches with established traditional practices and by evaluating them against software quality criteria, the ENASE conferences advance knowledge and research in software engineering, identify most hopeful trends, and propose new directions for consideration by researchers and practitioners involved in large-scale software development and integration.

Simple Statistical Methods for Software Engineering-C. Ravindranath Pandian 2015-05-21 Although there are countless books on statistics, few are dedicated to the application of statistical methods to software engineering. Simple Statistical Methods for Software Engineering: Data and Patterns fills that void. Instead of delving into overly complex statistics, the book details simpler solutions that are just as effective and connect with the intuition of problem solvers. Sharing valuable insights into software engineering problems and solutions, the book not only explains the required statistical methods, but also provides many examples, review questions, and case studies that provide the understanding required to apply those methods to real-world problems. After reading this book, practitioners will possess the confidence and understanding to solve day-to-day problems in quality, measurement, performance, and benchmarking. By following the examples and case studies, students will be better prepared able to achieve seamless transition from academic study to industry practices. Includes boxed stories, case studies, and illustrations that demonstrate the nuances behind proper application Supplies historical anecdotes and traces statistical methods to inventors and gurus Applies basic statistical laws in their simplest forms to resolve engineering problems Provides simple techniques for addressing the issues software engineers face The book starts off by reviewing the essential facts about data. Next, it supplies a detailed review and summary of metrics, including development, maintenance, test, and agile metrics. The third section covers the fundamental laws of probability and statistics and the final section presents special data patterns in the form of tailed mathematical distributions. In addition to selecting simpler and more flexible tools, the authors have also simplified several standard techniques to provide you with the set of intellectual tools all software engineers and managers require.

The Font Engineering Platform-Taeumel, Marcel 2019-11-14 Creating fonts is a complex task that requires expert knowledge in a variety of domains. Often, this knowledge is not held by a single person, but spread across a number of domain experts. A central concept needed for designing fonts is the glyph, an elemental symbol representing a readable character. Required domains include designing glyph shapes, engineering rules to combine glyphs for complex scripts and checking legibility. This process is most often iterative and requires communication in all directions. This report outlines a platform that aims to enhance the means of communication, describes our prototyping process, discusses complex font rendering and editing in a live environment and an approach to generate code based on a user's live-edits. Die Erstellung von Schriften ist eine komplexe Aufgabe, die Expertenwissen aus einer Vielzahl von Bereichen erfordert. Oftmals liegt dieses Wissen nicht bei einer einzigen Person, sondern bei einer Reihe von Fachleuten. Ein zentrales Konzept für die Gestaltung von Schriften ist der Glyph, ein elementares Symbol, das ein einzelnes lesbares Zeichen darstellt. Zu den erforderlichen Domänen gehören das Entwerfen der Glyphenformen, technische Regeln zur Kombination von Glyphen für komplexe Skripte und das Prüfen der Lesbarkeit. Dieser Prozess ist meist iterativ und erfordert ständige Kommunikation zwischen den Experten. Dieser Bericht skizziert eine Plattform, die darauf abzielt, die Kommunikationswege zu verbessern, beschreibt unseren Prototyping-Prozess, diskutiert komplexe Schriftrendering und -bearbeitung in einer Echtzeitumgebung und einen Ansatz zur Generierung von Code basierend auf direkter Manipulation eines Nutzers.

Site Reliability Engineering-Niall Richard Murphy 2016-03-23 The overwhelming majority of a software system's lifespan is spent in use, not in design or implementation. So, why does conventional wisdom insist that software engineers focus primarily on the design and development of large-scale computing systems? In this collection of essays and articles, key members of Google's Site Reliability Team explain how and why their commitment to the entire lifecycle has enabled the company to successfully build, deploy, monitor, and maintain some of the largest software systems in the world. You'll learn the principles and practices that enable Google engineers to make systems more scalable, reliable, and efficient—lessons directly applicable to your organization. This book is divided into four sections: Introduction—Learn what site reliability engineering is and why it differs from conventional IT industry practices Principles—Examine the patterns, behaviors, and areas of concern that influence the work of a site reliability engineer (SRE) Practices—Understand the theory and practice of an SRE's day-to-day work: building and operating large distributed computing systems Management—Explore Google's best practices for training, communication, and meetings that your organization can use

Smart Product Engineering-Michael Abramovici 2013-03-14 The collection of papers in this book comprises the proceedings of the 23rd CIRP Design Conference held between March 11th and March 13th 2013 at the Ruhr-Universität Bochum in Germany. The event was organized in cooperation with the German Academic Society for Product Development – WiGeP. The focus of the conference was on »Smart Product Engineering«, covering two major aspects of modern product creation: the development of intelligent ("smart") products as well as the new ("smart") approach of engineering, explicitly taking into account consistent systems integration. Throughout the 97 papers contained in these proceedings, a range of topics are covered, amongst them the different facets and aspects of what makes a product or an engineering solution "smart". In addition, the conference papers investigate new ways of engineering for production planning and collaboration towards Smart Product Engineering. The publications provide a solid insight into the pressing issues of modern digital product creation facing increasing challenges in a rapidly changing industrial environment. They also give implicit advice how a "smart" product or engineering solution (processes, methods and tools) needs to be designed and implemented in order to become successful.

Project Reliability Engineering-Eyal Shahar 2019-09-29 Turn your projects from a weekend hack to a long-living creation! Loosely drawing from the field known in large software companies as Site Reliability Engineering (SRE), this book distills from these disciplines and addresses issues that matter to makers: keeping projects up and running, and providing means to control, monitor, and troubleshoot them. Most examples use the Raspberry Pi, but the techniques discussed apply to other platforms as well. This book is all about breadth, and in the spirit of making, it visits different technologies as needed. However, the big goal in this book is to create a shift in the reader's mindset, where weekend hacks are pushed to the next level and are treated as products to be deployed. In that regard, this book can be a stepping stone for hobbyist makers into developing a broader, professional skill set. First, the book describes techniques for creating web-browser based dashboards for projects. These allow project creators to monitor, control, and troubleshoot their projects in real-time. Project Reliability Engineering discusses various aspects of the process of creating a web dashboard, such as network communication protocols, multithreading, and web design, and data visualization. Later chapters cover configuration of the project and the machine it's running on, and additional techniques for project monitoring and diagnosis. These include good logging practices; automatic log and metrics monitoring; and alerting via email and text messages; A mixture of advanced concepts forms the last chapter of the book, touching on topics such as usage of microservices in complex projects; debugging techniques for object-oriented projects; and fail-safing the project's software and hardware. What You'll Learn Monitor and control projects, keep them up and running, and troubleshoot them efficiently Get acquainted with available tools and libraries, and learn how to make your own tools Expand your knowledge in Python, JavaScript and Linux Develop deeper understanding of web technologies Design robust and complex systems Who This Book Is For Members of the maker community with some development skills.

Engineering Innovation-Benjamin M. Legum 2019-07-08 Engineering Innovation is an overview of the interconnected business and product development techniques needed to nurture the development of raw, emerging technologies into commercially viable products. This book relates Funding Strategies, Business Development, and Product Development to one another as an idea is refined to a validated concept, iteratively developed into a product, then produced for commercialization. Engineering Innovation also provides an introduction to business strategies and manufacturing techniques on a technical level designed to encourage passionate clinicians, academics, engineers and savvy entrepreneurs. Offers a comprehensive overview of the process of bringing new technology to market. Identifies a variety of technology management skill sets and management tools. Explores concept generation in conjunction with intellectual property development for early-stage companies. Explores Quality and Transfer-to-Manufacturing.

Theory-driven Learning Analytics Dashboard for Project-based Software Engineering Courses-Ming-You Xu 2019

eWork and eBusiness in Architecture, Engineering and Construction-Alain Zarli 2008-09-03 Since 1994, the European Conference on Product and Process Modelling (www.ecppm.org) has been providing a review of research, development and industrial implementation of product and process model technology in construction. The 7th European Conference on Product and Process Modelling (ECPPM 2008) provided a unique discussion platform for topics of

Business Driven PMO Setup-Mark Price Perry 2009-05-15 Featuring contributions from more than 20 distinguished executives and subject matter experts, this unique reference challenges various traditional approaches and strategies for the PMO and explains how to set up a business-driven PMO using an extensively proven roadmap adaptable to any type or size organization.

Rules of Thumb for Maintenance and Reliability Engineers-Ricky Smith 2011-03-31 Rules of Thumb for Maintenance and Reliability Engineers will give the engineer the "have to have" information. It will help instill knowledge on a daily basis, to do his or her job and to maintain and assure reliable equipment to help reduce costs. This book will be an easy reference for engineers and managers needing immediate solutions to everyday problems. Most civil, mechanical, and electrical engineers will face issues relating to maintenance and reliability, at some point in their jobs. This will become their "go to" book. Not an oversized handbook or a theoretical treatise, but a handy collection of graphs, charts, calculations, tables, curves, and explanations, basic "rules of thumb" that any engineer working with equipment will need for basic maintenance and reliability of that equipment. • Access to quick information which will help in day to day and long term engineering solutions in reliability and maintenance • Listing of short articles to help assist engineers in resolving problems they face • Written by two of the top experts in the country

Proceedings of the ... ASME Design Engineering Technical Conferences- 2007

Software Engineering for Science-Jeffrey C. Carver 2016-11-03 Software Engineering for Science provides an in-depth collection of peer-reviewed chapters that describe experiences with applying software engineering practices to the development of scientific software. It provides a better understanding of how software engineering is and should be practiced, and which software engineering practices are effective for scientific software. The book starts with a detailed overview of the Scientific Software Lifecycle, and a general overview of the scientific software development process. It highlights key issues commonly arising during scientific software development, as well as solutions to these problems. The second part of the book provides examples of the use of testing in scientific software development, including key issues and challenges. The chapters then describe solutions and case studies aimed at applying testing to scientific software development efforts. The final part of the book provides examples of applying software engineering techniques to scientific software, including not only computational modeling, but also software for data management and analysis. The authors describe their experiences and lessons learned from developing complex scientific software in different domains. About the Editors Jeffrey Carver is an Associate Professor in the Department of Computer Science at the University of Alabama. He is one of the primary organizers of the workshop series on Software Engineering for Science (http://www.SE4Science.org/workshops). Neil P. Chue Hong is Director of the Software Sustainability Institute at the University of Edinburgh. His research interests include barriers and incentives in research software ecosystems and the role of software as a research object. George K. Thiruvathukal is Professor of Computer Science at Loyola University Chicago and Visiting Faculty at Argonne National Laboratory. His current research is focused on software metrics in open source mathematical and scientific software.

Virtual Team Leadership and Collaborative Engineering Advancements: Contemporary Issues and Implications-Kock, Ned 2009-02-28 Addresses a range of e-collaboration topics, with emphasis on virtual team leadership and collaborative engineering. Presents a blend of conceptual, theoretical, and applied chapters.

Oil & Gas Engineering Guide (The) - 2nd ED- BARON Hervé 2015-03-01 This book provides the reader with: • a comprehensive description of engineering activities carried out on oil & gas projects, • a description of the work of each engineering discipline, including illustrations of all common documents, • an overall view of the plant design sequence and schedule, • practical tools to manage and control engineering activities. This book is designed to serve as a map to anyone involved with engineering activities. It enables the reader to get immediately oriented in any engineering development, to know which are the critical areas to monitor and the proven methods to apply. It will fulfill the needs of anyone wishing to improve engineering and project execution. Table des matières : 1. Project Engineering. 2. The Design Basis. 3. Process. 4. Equipment/Mechanical. 5. Plant Layout. 6. Safety & Environment. 7. Civil Engineering. 8. Materials & Corrosion. 9. Piping. 10. Plant Model. 11. Instrumentation and Control. 12. Electrical. 13. Off-Shore. 14. The Overall Work Process. 15. BASIC, FEED and Detail Design. 16. Matching the Project Schedule. 17. Engineering Management. 18. Methods & Tools. 19. Field Engineering. 20. Revamping.

SOFTWARE ENGINEERING-S. A. KELKAR 2007-09-13 A decade ago nobody could have imagined the crucial role that software would play in our everyday life. The artificial boundaries between hardware, software, telecommunication, and many other disciplines are getting blurred very rapidly. This book presents the essentials of theory and practice of software engineering in an abstracted form. Presenting the information based on software development life cycle, the text guides the students through all the stages of software production—Requirements, Designing, Construction, Testing and Maintenance. Key Features : Emphasizes on non-coding areas Includes appendices on "need to know" basis Makes the learning easier as organized by software development life cycle This text is well suited for academic courses on Software Engineering or for conducting training programmes for software professionals. This book will be equally useful to the instructors of software engineering as well as busy professionals who wish to grasp the essentials of software engineering without attending a formal instructional course.

Agile Management for Software Engineering-David J. Anderson 2003-09-17 A breakthrough approach to managing agile software development, Agile methods might just be the alternative to outsourcing. However, agile development must scale in scope and discipline to be acceptable in the boardrooms of the Fortune 1000. In Agile Management for Software Engineering, David J. Anderson shows managers how to apply management science to gain the full business benefits of agility through application of the focused approach taught by Eli Goldratt in his Theory of Constraints. Whether you're using XP, Scrum, FDD, or another agile approach, you'll learn how to develop management discipline for all phases of the engineering process, implement realistic financial and production metrics, and focus on building software that delivers maximum customer value and outstanding business results.Coverage includes: Making the business case for agile methods: practical tools and disciplines How to choose an agile method for your next project Breakthrough application of Critical Chain Project Management and constraint-driven control of the flow of value Defines the four new roles for the agile manager in software projects—and competitive IT organizations Whether you're a development manager, project manager, team leader, or senior IT executive, this book will help you achieve all four of your most urgent challenges: lower cost, faster delivery, improved quality, and focused alignment with the business.

Tunnels and Underground Cities. Engineering and Innovation Meet Archaeology, Architecture and Art-Daniele Peila 2019-04-17 Tunnels and Underground Cities: Engineering and Innovation meet Archaeology, Architecture and Art contains the contributions presented at the World Tunnel Congress 2019 (Naples, Italy, 3-9 May 2019). The use of underground space is continuing to grow, due to global urbanization, public demand for efficient transportation, and energy saving, production and distribution. The growing need for space at ground level, along with its continuous value increase and the challenges of energy saving and achieving sustainable development objectives, demand greater and better use of the underground space to ensure that it supports sustainable, resilient and more liveable cities. This vision was the source of inspiration for the design of the logos of both the International (ITA) and Italian (SIG) Tunnelling Association. By placing key infrastructures underground – the black circle in the logos – it will be possible to preserve and enhance the quality of the space at ground level – the green line. In order to consider and value underground space usage together with human and social needs, engineers, architects, and artists will have to learn to collaborate and develop an interdisciplinary design approach that addresses functionality, safety, aesthetics and quality of life, and adaptability to future and varied functions. The 700 contributions cover a wide range of topics, from more traditional subjects connected to technical challenges of design and construction of underground works, with emphasis on innovation in tunneling engineering, to less conventional and archetypically Italian themes such as archaeology, architecture, and art. The book has the following main themes: Archaeology, Architecture and Art in underground construction; Environment sustainability in underground construction; Geological and geotechnical knowledge and requirements for project implementation; Ground improvement in underground constructions; Innovation in underground engineering, materials and equipment; Long and deep tunnels;

Public communication and awareness; Risk management, contracts and financial aspects; Safety in underground construction; Strategic use of underground space for resilient cities; Urban tunnels. Tunnels and Underground Cities: Engineering and Innovation meet Archaeology, Architecture and Art is a valuable reference text for tunneling specialists, owners, engineers, architects and others involved in underground planning, design and building around the world, and for academics who are interested in underground constructions and geotechnics.

Improving the Adoption of Software Engineering Practices Through Persuasive Interventions-Leif-Gerrit Singer 2013

Lean Project Delivery and Integrated Practices in Modern Construction-Lincoln H. Forbes 2020-04-01 Lean Project Delivery and Integrated Practices in Modern Construction is the new and enhanced edition of the pioneering book Modern Construction by Lincoln H. Forbes and Syed M. Ahmed. This book provides a multi-faceted approach for applying lean methodologies to improve design and construction processes. Recognizing the wide diversity in the landscape of projects, and encompassing private and public sector activity, buildings and infrastructure, the book expands upon the detailed coverage of integrated project delivery and new lean tools and techniques to include: Greater emphasis on the importance of creating a lean culture and the initiatives required to transform the industry; Expanded discussions of the foundational writings in lean construction theory; Exploration of the synergies between "lean" and "green" initiatives; Specific procedures for modifying planning and scheduling activities to improve the performance of the project team; Expanded sections on quality, and topics that have become a part of the lean lexicon, such as Choosing by Advantages, "line of balance"/location-based scheduling, virtual design teams, takt time planning and set-based design; Discussion questions for beginners and advanced lean practitioners; and Improved cross-referencing within the text to help the reader navigate the frameworks, techniques and tools to support the application of lean principles. The techniques described here enhance the use of resources, reducing waste, minimizing delays, increasing quality and reducing overall costs. They enable practitioners to improve the quality of the built environment, secure higher levels of customer/owner satisfaction, and simultaneously improve their profitability. This book is essential reading for all those wanting to be at the forefront of construction management and lean thinking.

Data Structure and Software Engineering-James L. Antonakos 2016-04-19 Data structure and software engineering is an integral part of computer science. This volume presents new approaches and methods to knowledge sharing, brain mapping, data integration, and data storage. The author describes how to manage an organization's business process and domain data and presents new software and hardware testing methods. The book introduces a game development framework used as a learning aid in a software engineering at the university level. It also features a review of social software engineering metrics and methods for processing business information. It explains how to use Pegasys to create and manage sequence analysis workflows.

eWork and eBusiness in Architecture, Engineering and Construction. ECPPM 2006-Manuel Martinez 2020-11-25 The task of structuring information on built environment has presented challenges to the research community, software developers and the industry for the last 20 years. Recent work has taken advantage of Web and industry standards such as XML, OWL, IFC and STEP. Another important technology for the fragmented AEC industry is digital communication. Wired or wireless, it brings together architects, engineers and construction site workers, enabling them to exchange information, communicate and work together. Virtual enterprise organization structures, involving mobile teams over distance, are highly compatible with the needs of the construction industry.

XIII Mediterranean Conference on Medical and Biological Engineering and Computing 2013-Laura M. Roa Romero 2013-10-01 The general theme of MEDICON 2013 is "Research and Development of Technology for Sustainable Healthcare". This decade is being characterized by the appearance and use of emergent technologies under development. This situation has produced a tremendous impact on Medicine and Biology from which it is expected an unparalleled evolution in these disciplines towards novel concept and practices. The consequence will be a significant improvement in health care and well-fare, i.e. the shift from a reactive medicine to a preventive medicine. This shift implies that the citizen will play an important role in the healthcare delivery process, what requires a comprehensive and personalized assistance. In this context, society will meet emerging media, incorporated to all objects, capable of providing a seamless, adaptive, anticipatory, unobtrusive and pervasive assistance. The challenge will be to remove current barriers related to the lack of knowledge required to produce new opportunities for all the society, while new paradigms are created for this inclusive society to be socially and economically sustainable, and respectful with the environment. In this way, these proceedings focus on the convergence of biomedical engineering topics ranging from formalized theory through experimental science and technological development to practical clinical applications.

Security and Quality in Cyber-Physical Systems Engineering-Stefan Biffl 2019-11-09 This book examines the requirements, risks, and solutions to improve the security and quality of complex cyber-physical systems (C-CPS), such as production systems, power plants, and airplanes, in order to ascertain whether it is possible to protect engineering organizations against cyber threats and to ensure engineering project quality. The book consists of three parts that logically build upon each other. Part I "Product Engineering of Complex Cyber-Physical Systems" discusses the structure and behavior of engineering organizations producing complex cyber-physical systems, providing insights into processes and engineering activities, and highlighting the requirements and border conditions for secure and high-quality engineering. Part II "Engineering Quality Improvement" addresses quality improvements with a focus on engineering data generation, exchange, aggregation, and use within an engineering organization, and the need for proper data modeling and engineering-result validation. Lastly, Part III "Engineering Security Improvement" considers security aspects concerning C-CPS engineering, including engineering organizations' security assessments and engineering data management, security concepts and technologies that may be leveraged to mitigate the manipulation of engineering data, as well as design and run-time aspects of secure complex cyber-physical systems. The book is intended for several target groups: it enables computer scientists to identify research issues related to the development of new methods, architectures, and technologies for improving quality and security in multi-disciplinary engineering, pushing forward the current state of the art. It also allows researchers involved in the engineering of C-CPS to gain a better understanding of the challenges and requirements of multi-disciplinary engineering that will guide them in their future research and development activities. Lastly, it offers practicing engineers and managers with engineering backgrounds insights into the benefits and limitations of applicable methods, architectures, and technologies for selected use cases.

Human Factors and Reliability Engineering for Safety and Security in Critical Infrastructures-Fabio De Felice 2017-09-29 This book collects a high-quality selection of contemporary research and case studies on the complexity resulting from human/reliability management in industrial plants and critical infrastructures. It includes: Human-error management issues—considering how to reduce human errors as much as possible. Reliability management issues—considering the ability of a system or component to function under certain conditions for a specified period of time. Thus, the book analyses globally the problem regarding the human and reliability management to reduce human errors as much as possible and to ensure safety and security in critical infrastructures. Accidents continue to be the major concern in "critical infrastructures", and human factors have been proved to be the prime causes to accidents. Clearly, human dynamics are a challenging management function to guarantee reliability, safety and costs reduction in critical infrastructures. The book is enriched by figures, examples and extensive case studies and is a valuable reference resource for those with involved in disaster and emergency planning as well as researchers interested both in theoretical and practical aspects.

Scenario-Focused Engineering-Austina De Bonte 2014 Great technology alone is rarely sufficient today to ensure a product's success. At Microsoft, scenario-focused engineering is a customer-centric, iterative approach used to design and deliver the deeper experiences and emotional engagement customers demand in new products. In this book, you'll discover the proven practices and lessons learned from real-world implementations of this approach, including: Why design matters: Understand a competitive landscape where customers are no longer satisfied by products that are merely useful, but respond instead to products they crave using. What it means to be customer focused: Recognize that you are not the customer, understand customers can have difficulty articulating what they want, and apply techniques that uncover their unspoken needs. How to iterate effectively: Implement a development system that is flexible enough to respond to early and continuous feedback, and enables experimentation with multiple ideas and feedback loops simultaneously. How to bridge the culture gap: In an engineering environment traditionally rooted in strong analytics, the ideas and practices for scenario-focused engineering may not be intuitive. Learn how to change team mindset from deciding what a product, service, or device will do, to discovering what customers actually want and what will work for them in real-life scenarios. Connections with Lean and Agile approaches: See the connections, gaps, and overlaps among the Lean, Agile, and Scenario-Focused Engineering methodologies, and achieve a more holistic view of software development.

Managing the NIH Bethesda Campus Capital Assets for Success in a Highly Competitive Global Biomedical Research Environment-National Academies of Sciences, Engineering, and Medicine 2019-11-02 The National Institutes of Health (NIH) is the primary agency of the United States government responsible for biomedical and public health research. Founded in the late 1870s, NIH has produced extraordinary advances in the treatment of common and rare diseases and leads the world in biomedical research. It is a critical national resource that plays an important role in supporting national security. The 310-acre Bethesda campus supports some 20,000 employees and contractors, and it contains more than 12 million square feet of facilities divided amongst nearly 100 buildings, including the largest dedicated research hospital in the world. The Bethesda campus supports some of the most sophisticated and groundbreaking biomedical research in the world. However, while some new state-of-the-art buildings have been constructed in recent years, essential maintenance for many facilities and the campus overall has been consistently deferred for many years. The deteriorating condition of NIH's built environment is now putting its ability to fulfill its mission at substantial risk. Managing the NIH Bethesda Campus's Capital Assets for Success in a Highly Competitive Global Biomedical Research Environment identifies the facilities in greatest need of repair on the Bethesda campus and evaluates cost estimates to determine what investment is needed for the NIH to successfully accomplish its mission going forward.

Software Measurement-Christof Ebert 2007-07-25 In this comprehensive introduction to software measurement, Ebert and Dumke detail knowledge and experiences about the subject in an easily understood, hands-on presentation. The book describes software measurement in theory and practice as well as provides guidance to all relevant measurement tools and online references. In addition, it presents hands-on experience from industry leaders and provides many examples and case studies from Global 100 companies. Besides the many practical hints and checklists, readers will also appreciate the large reference list, which includes links to metrics communities where project experiences are shared.

Project Management Metrics, KPIs, and Dashboards-Harold Kerzner 2017-08-30 Harold Kerzner's essential strategies on measuring project management performance With the growth of complex projects, stakeholder involvement, and advancements in visual-based technology, metrics and KPIs (key performance indicators) are key factors in evaluating project performance. Dashboard reporting systems provide accessible project performance data, and sharing this vital data in a concise and consistent manner is a key communication responsibility of all project managers. This third edition of Kerzner's groundbreaking work, Project Management Metrics, KPIs, and Dashboards: A Guide to Measuring and Monitoring Project Performance, helps functional managers gain a thorough grasp of what metrics and KPIs are and how to use them. Plus, this edition includes new sections on processing dashboard information, portfolio management PMO and metrics, and BI tool flexibility. • Offers comprehensive coverage of the different dashboard types, design issues, and applications Provides full-color dashboards from some of the most successful project management companies, including IBM, Microsoft, and others Aligns with PMI's PMBOK® Guide and stresses value-driven project management PPT decks are available by chapter and a test bank will be available for use in seminar presentations and courses Get ready to bolster your awareness of what good metrics management really entails today—and be armed with the knowledge to measure performance more effectively.

Requirements Engineering: Foundation for Software Quality-Paul Grünbacher 2017-02-20 This book constitutes the proceedings of the 23rd International Working Conference on Requirements Engineering - Foundation for Software Quality, REFSQ 2017, held in Essen, Germany, in February/March 2017. The 16 full papers and 10 short papers presented in this volume were carefully reviewed and selected from 77 submissions. The papers were organized in topical sections named: use case models; ecosystems and innovation; human factors in requirements engineering; goal-orientation in requirements engineering; communication and collaboration; process and tool integration; visualization and representation of requirements; agile requirements engineering; natural language processing, information retrieval and machine learning traceability; quality of natural language requirements; research methodology in requirements engineering.

Web Engineering-Tommi Mikkonen 2018-06-22 This book constitutes the refereed proceedings of the 18th International Conference on Web Engineering, ICWE 2018, held in Cáceres, Spain, in June 2018. The 18 full research papers and 17 short papers presented together with 2 practice papers, 6 demonstration papers, and 5 tutorials were carefully reviewed and selected from 103 submissions. The papers cover research areas such as Web application modeling and engineering; Web infrastructures and architectures; execution models; human computation and crowdsourcing applications; Web application composition and mashups; Social Web applications; Semantic Web applications; Web of Things applications; big data and data analytics; and security, privacy, and identity.