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SOFTWARE ESTIMATION



Demystifying the Black Art

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Two-time winner of *Software Development* magazine's Jolt Award

Software Estimation The Black Art Demystified

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Software Estimation The Black Art Demystified:

Software Estimation Steve McConnell, 2006 A practical guide for software developers and development teams this book written by an award winning author features effective and understandable formulas procedures and heuristics to help organizations improve their project cost estimates

Software Estimation Steve McConnell, 2006-02-22 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 treatises 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 you 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

Requirements Engineering: Foundation for Software Quality Maya Daneva, Oscar Pastor, 2016-03-04 This book constitutes the proceedings of the 22nd International Working Conference on Requirements Engineering Foundation for Software Quality REFSQ 2016 held in Gothenburg Sweden in March 2016 The 16 full papers and 5 short papers presented in this volume were carefully reviewed and selected from 64 submissions The papers were organized in topical sections named decision making in requirements engineering open source in requirements engineering natural language compliance in requirements engineering requirements engineering requirements engineering in the automotive domain empirical studies in requirements engineering requirements engineering foundations human factors in requirements engineering and research methodology in requirements engineering

How to Engineer Software Steve Tockey, 2019-11-05 A guide to the application of the theory and practice of computing to develop and maintain software that economically solves real world problem How to Engineer Software is a practical how to guide that explores the concepts and techniques of model based software engineering using the Unified Modeling Language The author a noted expert on the topic demonstrates how software can be developed and maintained under a true engineering discipline He describes the relevant software engineering practices that are grounded in Computer Science and Discrete Mathematics Model based software engineering uses semantic modeling to reveal as many precise requirements as possible This approach separates business complexities from technology complexities and gives developers the most freedom in finding optimal designs and code The book promotes development scalability through domain

partitioning and subdomain partitioning It also explores software documentation that specifically and intentionally adds value for development and maintenance This important book Contains many illustrative examples of model based software engineering from semantic model all the way to executable code Explains how to derive verification acceptance test cases from a semantic model Describes project estimation along with alternative software development and maintenance processes Shows how to develop and maintain cost effective software that solves real world problems Written for graduate and undergraduate students in software engineering and professionals in the field How to Engineer Software offers an introduction to applying the theory of computing with practice and judgment in order to economically develop and maintain software

The Problem with Software Adam Barr,2018-10-23 An industry insider explains why there is so much bad software and why academia doesn't teach programmers what industry wants them to know Why is software so prone to bugs So vulnerable to viruses Why are software products so often delayed or even canceled Is software development really hard or are software developers just not that good at it In The Problem with Software Adam Barr examines the proliferation of bad software explains what causes it and offers some suggestions on how to improve the situation For one thing Barr points out academia doesn't teach programmers what they actually need to know to do their jobs how to work in a team to create code that works reliably and can be maintained by somebody other than the original authors As the size and complexity of commercial software have grown the gap between academic computer science and industry has widened It's an open secret that there is little engineering in software engineering which continues to rely not on codified scientific knowledge but on intuition and experience Barr who worked as a programmer for more than twenty years describes how the industry has evolved from the era of mainframes and Fortran to today's embrace of the cloud He explains bugs and why software has so many of them and why today's interconnected computers offer fertile ground for viruses and worms The difference between good and bad software can be a single line of code and Barr includes code to illustrate the consequences of seemingly inconsequential choices by programmers Looking to the future Barr writes that the best prospect for improving software engineering is the move to the cloud When software is a service and not a product companies will have more incentive to make it good rather than good enough to ship

Software Engineering Reviews and Audits Boyd L.

Summers,2011-01-07 Accurate software engineering reviews and audits have become essential to the success of software companies and military and aerospace programs These reviews and audits define the framework and specific requirements for verifying software development efforts Authored by an industry professional with three decades of experience Software Engineerin

Handbook of Systems Engineering and Analysis of Electro-Optical and Infrared Systems William Wolfgang Arrasmith,2025-06-30 There has been a lot of innovation in systems engineering and some fundamental advances in the field of optics imaging lasers and photonics that warrant attention This volume focuses on applications tools and techniques of systems engineering related topics from government industrial and academic settings such as development and

operations DevOps agile methods and the concept of the digital twin Handbook of Systems Engineering and Analysis of Electro Optical and Infrared Systems Applications Tools and Techniques offers more information on the application of decision and risk analysis and statistical methods in systems engineering such as design of experiments DOX methods including statistical process control hypothesis testing analysis of variance blocking 2k factorial analysis and regression analysis It includes new material using model based systems engineering and systems architecture methods in a system level design application The integration of recent high speed atmospheric turbulence research results in the optical technical examples and case studies to illustrate the new developments is also included A presentation of new optical technical materials for adaptive optics AO and atmospheric turbulence compensation ATC systems that are based on illumination from passive sources natural light or active sources coherent light like from lasers provides the technical focus for the systems engineering methods and techniques Chapter 13 focuses on the technical aspects of the design process and uses the systems level design as an illustration In addition to covering lifecycle cost estimation methods and applying them to an integrated case study that is used to illustrate important concepts and techniques throughout this work the final section brings everything together in terms of technical cost and schedule performance Because this volume blends modern day systems engineering methods with detailed optical systems analysis and applies these methodologies to EO IR systems this new edition is an excellent text for professionals in STEM disciplines that work with optical or infrared systems It s also a great practical reference text for the practicing engineer and a solid educational text for graduate level systems engineering engineering science and technology students

Durable Ideas in Software Engineering: Concepts, Methods and Approaches from My Virtual Toolbox James J. Cusick, 2013-01-01 Software Engineering now occupies a central place in the development of technology and in the advancement of the economy from telecommunications to aerospace and from cash registers to medical imaging software plays a vital and often decisive role in the successful accomplishment of a variety of projects the creation of software requires a variety of techniques tools and especially properly skilled engineers This e book focuses on core concepts and approaches that have proven useful to the author time and time again on many industry projects over a quarter century of research development and teaching Enduring lasting and meaningful concepts ideas and methods in software engineering are presented and explained The book covers essential topics of the field of software engineering with a focus on practical and commonly used techniques along with advanced topics useful for extending the reader s knowledge regarding leading edge approaches Building on the industrial research and teaching experiences of the author a dynamic treatment of the subject is presented incorporating a wide body of published findings and techniques novel organization of material original concepts contributions from specialists and the clear concise writing required to keep the attention of readers Using over 20 years of lecture notes transcripts course notes view graphs published articles and other materials as well as industry experience on commercial software product development a virtual toolbox of software

techniques are shared in this volume Computational Science and Its Applications - ICCSA 2014 Beniamino Murgante, Sanjay Misra, Ana Maria Alves Coutinho Rocha, Carmelo Torre, Jorge Gustavo Rocha, Maria Irene Falcão, David Taniar, Bernady O. Apduhan, Osvaldo Gervasi, 2014-07-02 The six volume set LNCS 8579 8584 constitutes the refereed proceedings of the 14th International Conference on Computational Science and Its Applications ICCSA 2014 held in Guimarães Portugal in June July 2014 The 347 revised papers presented in 30 workshops and a special track were carefully reviewed and selected from 1167 The 289 papers presented in the workshops cover various areas in computational science ranging from computational science technologies to specific areas of computational science such as computational geometry and security **How to Save a Failing Project** Ralph R. Young, Ralph R. Young DBA, Steve M. Brady, Steve M. Brady PMP, Dennis C. Nagle, 2009-05 You CAN Turn Around A Failing Project Poor project results are all too common and result in dissatisfied customers users and project staff With countless people goals objectives expectations budgets schedules deliverables and deadlines to consider it can be difficult to keep projects in focus and on track How to Save a Failing Project Chaos to Control arms project managers with the tools and techniques needed to address these project challenges The authors provide guidance to develop a project plan establish a schedule for execution identify project tracking mechanisms and implement turnaround methods to avoid failure and regain control With this valuable resource you will be able to Identify key factors leading to failure Learn how to recover a failing project and minimize future risk Better analyze your project by defining proper business objectives and goals Gain insight on industry best practices for planning

Implementing the Stakeholder Based Goal-Question-Metric (Gqm) Measurement Model for Software Projects Dr. Prashanth Harish Southekal, 2014-06-25 Software projects today are often characterized by poor quality schedule overruns and high costs One of the approaches to address the poor success rate is to track the project progress with a stakeholder driven measurement model that is objective and validated theoretically and empirically In this backdrop based on the Goal Question Metric GQM model this book proposes a generic and objective measurement model for a software project with eight key measures based on the value propositions of the stakeholders The measurement model is validated i theoretically with measurement theory criteria and ii empirically with case studies and a global survey representing IT industry practitioners

Beautiful Teams Andrew Stellman, Jennifer Greene, 2009-03-21 What s it like to work on a great software development team facing an impossible problem How do you build an effective team Can a group of people who don t get along still build good software How does a team leader keep everyone on track when the stakes are high and the schedule is tight Beautiful Teams takes you behind the scenes with some of the most interesting teams in software engineering history You ll learn from veteran team leaders successes and failures told through a series of engaging personal stories and interviews by leading programmers architects project managers and thought leaders This book includes contributions from Tim O Reilly Scott Berkun Mark Healey Bill DiPierre Andy Lester Keoki Andrus Tom Tarka Auke Jilderda Grady Booch Jennifer Greene Mike

Cohn Cory Doctorow Neil Siegel Trevor Field James Grenning Steve McConnell Barry Boehm and Maria H Penedo Peter Gluck Karl E Wieggers Alex Martelli Karl Fogel Michael Collins Karl Rehmer Andrew Stellman Ned Robinson Scott Ambler Johanna Rothman Mark Denovich and Eric Renkey Patricia Ensworth Andy Oram Tony Visconti Beautiful Teams is edited by Andrew Stellman and Jennifer Greene veteran software engineers and project managers who have been writing bestselling books for O Reilly since 2005 including Applied Software Project Management Head First PMP and Head First C

Software Requirements Karl E. Wieggers, Joy Beatty, 2013-08-15 Now in its third edition this classic guide to software requirements engineering has been fully updated with new topics examples and guidance Two leaders in the requirements community have teamed up to deliver a contemporary set of practices covering the full range of requirements development and management activities on software projects Describes practical effective field tested techniques for managing the requirements engineering process from end to end Provides examples demonstrating how requirements good practices can lead to fewer change requests higher customer satisfaction and lower development costs Fully updated with contemporary examples and many new practices and techniques Describes how to apply effective requirements practices to agile projects and numerous other special project situations Targeted to business analysts developers project managers and other software project stakeholders who have a general understanding of the software development process Shares the insights gleaned from the authors extensive experience delivering hundreds of software requirements training courses presentations and webinars New chapters are included on specifying data requirements writing high quality functional requirements and requirements reuse Considerable depth has been added on business requirements elicitation techniques and nonfunctional requirements In addition new chapters recommend effective requirements practices for various special project situations including enhancement and replacement packaged solutions outsourced business process automation analytics and reporting and embedded and other real time systems projects

Trends in Advanced Intelligent Control, Optimization and Automation Wojciech Mitkowski, Janusz Kacprzyk, Krzysztof Oprządkiewicz, Paweł Skruch, 2017-06-06 This volume contains the proceedings of the KKA 2017 the 19th Polish Control Conference organized by the Department of Automatics and Biomedical Engineering AGH University of Science and Technology in Krak w Poland on June 18 21 2017 under the auspices of the Committee on Automatic Control and Robotics of the Polish Academy of Sciences and the Commission for Engineering Sciences of the Polish Academy of Arts and Sciences Part 1 deals with general issues of modeling and control notably flow modeling and control sliding mode predictive dual etc control In turn Part 2 focuses on optimization estimation and prediction for control Part 3 is concerned with autonomous vehicles while Part 4 addresses applications Part 5 discusses computer methods in control and Part 6 examines fractional order calculus in the modeling and control of dynamic systems Part 7 focuses on modern robotics Part 8 deals with modeling and identification while Part 9 deals with problems related to security fault detection and diagnostics Part 10 explores intelligent systems in automatic control and Part 11 discusses the

use of control tools and techniques in biomedical engineering Lastly Part 12 considers engineering education and teaching with regard to automatic control and robotics

Future-Proof Software-Systems Frank J. Furrer, 2019-09-25 This book focuses on software architecture and the value of architecture in the development of long lived mission critical trustworthy software systems The author introduces and demonstrates the powerful strategy of Managed Evolution along with the engineering best practice known as Principle based Architecting The book examines in detail architecture principles for e g Business Value Changeability Resilience and Dependability The author argues that the software development community has a strong responsibility to produce and operate useful dependable and trustworthy software Software should at the same time provide business value and guarantee many quality of service properties including security safety performance and integrity As Dr Furrer states Producing dependable software is a balancing act between investing in the implementation of business functionality and investing in the quality of service properties of the software systems The book presents extensive coverage of such concepts as Principle Based Architecting Managed Evolution Strategy The Future Principles for Business Value Legacy Software Modernization Migration Architecture Principles for Changeability Architecture Principles for Resilience Architecture Principles for Dependability The text is supplemented with numerous figures tables examples and illustrative quotations Future Proof Software Systems provides a set of good engineering practices devised for integration into most software development processes dedicated to the creation of software systems that incorporate Managed Evolution **More**

About Software Requirements Karl E. Wiegers, Karl Wiegers, 2005-12-20 No matter how much instruction you ve had on managing software requirements there s no substitute for experience Too often lessons about requirements engineering processes lack the no nonsense guidance that supports real world solutions Complementing the best practices presented in his book Software Requirements Second Edition requirements engineering authority Karl Wiegers tackles even more of the real issues head on in this book With straightforward professional advice and practical solutions based on actual project experiences this book answers many of the tough questions raised by industry professionals From strategies for estimating and working with customers to the nuts and bolts of documenting requirements this essential companion gives developers analysts and managers the cosmic truths that apply to virtually every software development project Discover how to Make the business case for investing in better requirements practices Generate estimates using three specific techniques Conduct inquiries to elicit meaningful business and user requirements Clearly document project scope Implement use cases scenarios and user stories effectively Improve inspections and peer reviews Write requirements that avoid ambiguity *Software War Stories* Donald J. Reifer, 2013-10-14 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 Unlocking Agile's Missed Potential Robert Webber,2022-08-02 UNLOCKING AGILE S MISSED POTENTIAL Agile has not delivered on its promises The business side expected faster time to market but they still experience the long delays of bloated releases Engineers thought they would be given time to build the product right the first time but they are rushed under pressure to deliver new features within impossible schedules What went wrong The culprit is feature based waterfall release planning perpetuated in a vain attempt to achieve business predictability Agile didn t address the business need for multi year financial predictability The Agile community s answer was the na ve response The business needs to be more Agile Waterfall release planning with fixed schedules undercuts a basic tenet of Agile development the need to adjust content delivered within a timebox to account for evolving requirements and incorporation of feedback Agile without flexible content is not Agile This book introduces a novel solution that enables product teams to deliver higher value within shorter cycle times while meeting the predictability needs of the business Organizations today want product teams that break down walls between product management and engineering to achieve schedule and financial objectives Until now they haven t had a way to implement product teams within the rigid constraints of traditional organizational structures The Investment planning approach described in this book supports small development increments planned and developed by product teams aligned by common schedule and financial goals It uses Cost of Delay principles to prioritize work with the highest value and shortest cycle times Investments provide a vehicle for collaboration and innovation and fulfill the promise of highly motivated self directed Agile development teams This book is for engineers product managers and project managers who want to finally do Agile the way it was envisioned This book is also for leaders who want to build high performance teams around the inherent motivational environment of Agile when done right Foreword by Steve McConnell author of More Effective Agile A Roadmap for Software Leaders Construx Press 2019 **Project Management the Agile Way, Second Edition** John C. Goodpasture,2015-11-01 a well written and content rich book From a teacher s perspective using this book in an advanced project management seminar challenges students to understand the application of these concepts Alexander Walton PMP IT consultant to the University of California at Berkeley Widely acclaimed as one of the top agile books in its first edition Project

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Iterative and Agile Implementation Methodologies in Business Intelligence Software Development Nat Landry, 2011-03-01

Business Intelligence BI software development is an iterative and agile process In most corporations however BI solutions are being implemented using the standard waterfall life cycle development methodology This book discusses why this is a mistake and offers a methodology for success in BI software implementations

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mizuawa suihō 水戸 literally means water bubble in 1928 he married junko 潤子