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Developing Safety-Critical Software Jan 03 2023 The amount of software used in safety-critical systems is increasing at a rapid rate. At the same time, software technology is changing, projects are pressed to develop software faster and more cheaply, and the software is being used in more critical ways. **Developing Safety-Critical Software: A Practical Guide for Aviation Software and DO-178C Compliance** equips you with the information you

need to effectively and efficiently develop safety-critical, life-critical, and mission-critical software for aviation. The principles also apply to software for automotive, medical, nuclear, and other safety-critical domains. An international authority on safety-critical software, the author helped write DO-178C and the U.S. Federal Aviation Administration's policy and guidance on safety-critical software. In this book, she draws on more than 20 years of experience as a

certification authority, an avionics manufacturer, an aircraft integrator, and a software developer to present best practices, real-world examples, and concrete recommendations. The book includes: An overview of how software fits into the systems and safety processes Detailed examination of DO-178C and how to effectively apply the guidance Insight into the DO-178C-related documents on tool qualification (DO-330), model-

based development (DO-331), object-oriented technology (DO-332), and formal methods (DO-333) Practical tips for the successful development of safety-critical software and certification Insightful coverage of some of the more challenging topics in safety-critical software development and verification, including real-time operating systems, partitioning, configuration data, software reuse, previously developed software, reverse engineering, and outsourcing and offshoring An invaluable reference for systems and software managers,

developers, and quality assurance personnel, this book provides a wealth of information to help you develop, manage, and approve safety-critical software more confidently. **Designing Secure Software** Aug 06 2020 What every software professional should know about security. Designing Secure Software consolidates Loren Kohnfelder's more than twenty years of experience into a concise, elegant guide to improving the security of technology products. Written for a wide range of software professionals, it emphasizes building security into software design early and

involving the entire team in the process. The book begins with a discussion of core concepts like trust, threats, mitigation, secure design patterns, and cryptography. The second part, perhaps this book's most unique and important contribution to the field, covers the process of designing and reviewing a software design with security considerations in mind. The final section details the most common coding flaws that create vulnerabilities, making copious use of code snippets written in C and Python to illustrate implementation vulnerabilities. You'll learn how to:

• Identify important assets, the attack surface, and the trust boundaries in a system • Evaluate the effectiveness of various threat mitigation candidates • Work with well-known secure coding patterns and libraries • Understand and prevent vulnerabilities like XSS and CSRF, memory flaws, and more • Use security testing to proactively identify vulnerabilities introduced into code • Review a software design for security flaws effectively and without judgment Kohnfelder's career, spanning decades at Microsoft and Google, introduced numerous software

security initiatives, including the co-creation of the STRIDE threat modeling framework used widely today. This book is a modern, pragmatic consolidation of his best practices, insights, and ideas about the future of software.

A+ Guide to Software Mar 13 2021 Written by best-selling author and instructor Jean Andrews, this edition maps fully to the 2006 A+ Exams. This full-color guide is designed to be the most complete, step-by-step book available for learning the fundamentals of supporting and troubleshooting computer software. Video clips are

available on the accompanying CD so readers can watch the author bring concepts and technical topics to life via live demonstrations. *The Digital Guide To Software Development* Aug 18 2021 Here is the first published description of the processes and practices, tools, and methods this industry giant uses to develop its software products. This 'shirt-sleeves' guide is packed with diagrams and tables that illustrate each step in the complex software development process. You'll learn all about Digital's standard 'phase review process,' the role of teams and their leaders, how

CASE tools work, and how to control a project while improving productivity and product quality.

The Software Developer's Guide

Jul 05 2020 There are plenty of books that show you how to write applications in a specific language. They explain the nuts and bolts of the syntax and the use of the tools to build applications with the latest features and functionality available. There are also a number of fine books that show you how to be "a computer consultant." But there are a whole host of issues specific to the business of writing, delivering and supporting custom

software systems. This is the only book that will take you on a step-by-step tour of the entire process. "DevGuide 3", with over 150 pages of new material, shows you how to do "The Other 90%" of the work involved in producing custom software applications.

Guide to Software Acceptance Nov 20 2021

Acceptance categories and criteria / life cycle models / acceptance testing / software quality / product assurance.

Concise Guide to Software

Engineering Jun 27 2022 This textbook presents a concise introduction to the fundamental

principles of software engineering, together with practical guidance on how to apply the theory in a real-world, industrial environment. The wide-ranging coverage encompasses all areas of software design, management, and quality. Topics and features: presents a broad overview of software engineering, including software lifecycles and phases in software development, and project management for software engineering; examines the areas of requirements engineering, software configuration management,

software inspections, software testing, software quality assurance, and process quality; covers topics on software metrics and problem solving, software reliability and dependability, and software design and development, including Agile approaches; explains formal methods, a set of mathematical techniques to specify and derive a program from its specification, introducing the Z specification language; discusses software process improvement, describing the CMMI model, and introduces UML, a visual modelling language for software systems;

reviews a range of tools to support various activities in software engineering, and offers advice on the selection and management of a software supplier; describes such innovations in the field of software as distributed systems, service-oriented architecture, software as a service, cloud computing, and embedded systems; includes key learning topics, summaries and review questions in each chapter, together with a useful glossary. This practical and easy-to-follow textbook/reference is ideal for computer science students seeking to learn how to build high quality and

reliable software on time and on budget. The text also serves as a self-study primer for software engineers, quality professionals, and software managers. *The Software Audit Guide* Jan 23 2022 Audit - now there's a word that can strike terror into your heart. Whether it's the IRS looking over your shoulder or a quality tool utilized by your company, it requires accountability. A software audit monitors the development process and provides management with an independent view of the software development status. The purpose of this book is to remove the terror and error while improving the

audit process. Software is not produced on a production line; the only thing that is the same on all software projects is that there is input and output. Everything in the middle is customized for the project at hand. Thus, The Software Audit Guide does not contain a one-size-fits-all approach. It gives a choice of areas to audit and different questions that should be asked within these areas. This book provides a flexible, user-friendly checklist of more than 1,300 questions designed to stimulate creative thinking that will ultimately result in the best possible software audit.

A Guide to Selecting Software Measures and Metrics Feb 21 2022 Going where no book on software measurement and metrics has previously gone, this critique thoroughly examines a number of bad measurement practices, hazardous metrics, and huge gaps and omissions in the software literature that neglect important topics in measurement. The book covers the major gaps and omissions that need to be filled if data about software development is to be useful for comparisons or estimating future projects. Among the more serious gaps are leaks in

reporting about software development efforts that, if not corrected, can distort data and make benchmarks almost useless and possibly even harmful. One of the most common leaks is that of unpaid overtime. Software is a very labor-intensive occupation, and many practitioners work very long hours. However, few companies actually record unpaid overtime. This means that software effort is underreported by around 15%, which is too large a value to ignore. Other sources of leaks include the work of part-time specialists who come and go as needed. There are

dozens of these specialists, and their combined effort can top 45% of total software effort on large projects. The book helps software project managers and developers uncover errors in measurements so they can develop meaningful benchmarks to estimate software development efforts. It examines variations in a number of areas that include: Programming languages Development methodology Software reuse Functional and nonfunctional requirements Industry type Team size and experience Filled with tables and charts, this book is a starting

point for making measurements that reflect current software development practices and realities to arrive at meaningful benchmarks to guide successful software projects.

Guide to Advanced Software Testing

Jan 29 2020 The book offers you a practical understanding of essential software testing topics and their relationships and interdependencies. This unique resource provides a thorough overview of software testing and its purpose and value. It covers topics ranging from handling failures, faults, and mistakes, to the cost of fault

corrections, OC scoping OCO the test effort and using standards to guide testing."

Guide To Software Export: A Handbook For International Software Sales

Mar 01 2020 An ideal reference source for CEOs, marketing and sales managers, sales consultants, and students of international marketing, Guide to Software Export provides a step-by-step approach to initiating or expanding international software sales. It teaches you how to examine critically your candidate product for exportability; how to find distributors, agents, and resellers abroad;

how to identify the best distribution structure for export; and much, much more! Not content with providing just the guidelines for setting up, expanding, and managing your international sales channels, Guide to Software Export advises you on pitfalls to avoid, important legal and financial considerations associated with software export, and essential market and distribution information. In an effort to cover all the bases, this comprehensive text also discusses: negotiating partnerships electronic marketing evaluating the

competition cultural assumptions and biases adapting software for use in Asian markets information sources on the Internet distribution channel strategies If you're not satisfied with your company's international sales performance or you want to get into the global market, Guide to Software Export can help you guide your company through the transition. With the book's easy-to-follow advice and checkpoints, you are sure to bring new levels of success to your company, so act now and get out in the forefront of software exporting.

Optimization Software Guide
Apr 25 2022

Developments in optimization theory, including emphasis on large problems and on interior-point methods for linear programming, have begun to appear in production software. Here is a reference tool that includes discussions of these areas and names software packages that incorporate the results of theoretical research. After an introduction to the major problem areas in optimization and an outline of the algorithms used to solve them, a data sheet is presented for each of the 75 software packages and libraries in the authors' survey. These include information on the

capabilities of the packages, how to obtain them, and addresses for further information. Standard optimization paradigms are addressed -- linear, quadratic, and nonlinear programming; network optimization; unconstrained and bound-constrained optimization; least-squares problems; nonlinear equations; and integer programming. The most practical algorithms for the major fields of numerical optimization are outlined, and the software packages in which they are implemented are described. This format will aid current and

potential users of optimization software in classifying the optimization problem to be solved, determining appropriate algorithms, and obtaining the software that implements those algorithms. Readers need only a basic knowledge of vector calculus and linear algebra to understand this book.

The Complete Guide to Software Testing Nov 01 2022 Ed Yourdan called it a bible for project managers. You'll gain a new perspective on software testing as a life cycle activity, not merely as something that happens at the end of coding. An invaluable aid for

the development of testing standards and the evaluation of testing effectiveness.

Ship it! Aug 30 2022 Ship It! is a collection of tips and techniques a successful project team has to use, and how to use them well. You'll get quick, easy-to-follow advice on modern practices: which to use, and when they should be applied. This book avoids current fashion trends and marketing hype; instead, readers find page after page of solid advice, all tried and tested in the real world. Aimed at beginning to intermediate programmers, Ship It! will show you: Which tools help, and which don't

How to keep a project moving Approaches to scheduling that work How to build developers as well as product What's normal on a project, and what's not How to manage managers, end-users and sponsors Danger signs and how to fix them Few of the ideas presented here are controversial or extreme; most experienced programmers will agree that this stuff works. Yet 50 to 70 percent of all project teams in the U.S. aren't able to use even these simple, well-accepted practices effectively. This book will help you get started. Ship It! begins by introducing the common

technical infrastructure that every project needs to get the job done. Readers can choose from a variety of recommended technologies according to their skills and budgets. The next sections outline the necessary steps to get software out the door reliably, using well-accepted, easy-to-adopt, best-of-breed practices that really work. Finally, and most importantly, Ship It! presents common problems that teams face, then offers real-world advice on how to solve them. **The Writer's Guide to Training Your Dragon** Dec 22 2021 Want to dictate up to 5000 WORDS an hour? Want to do it with

99% ACCURACY from the day you start? NEW EDITION: UPDATED to cover the latest Dragon Professional Individual v15 for PC & v6 for Mac FREE video training included! As writers, we all know what an incredible tool dictation software can be. It enables us to write faster and avoid the dangers of RSI and a sedentary lifestyle. But many of us give up on dictating when we find we can't get the accuracy we need to be truly productive. This book changes all of that. With almost two decades of using Dragon software under his belt and a wealth of insider knowledge from within the

dictation industry, Scott Baker will reveal how to supercharge your writing and achieve sky-high recognition accuracy from the moment you start using the software. You will learn: - Hidden tricks to use when installing Dragon NaturallySpeaking on a Windows PC or Dragon Dictate for Mac; - How to choose the right microphone and set it up perfectly for speech recognition; - The little-known techniques that will ensure around 99% accuracy from your first install - and how to make this even better over time; - Setting up fail-safe dictation profiles with multiple microphones and

voice recorders, without impacting your accuracy; - How to train the software to adapt to both your voice AND writing style and avoid your accuracy declining; - Strategies for achieving your entire daily word count in just one or two hours; - Many more tips and tricks you won't find anywhere else. At the end of the book, you'll also find an exclusive list of resources and links to FREE video training to take your knowledge even further. It's time to write at the speed of speech - and transform your writing workflow forever! Subject keywords: Dragon Dictate Naturally Speaking for PC Mac, dictating your

book or novel, dictation for writers authors beginners advanced, creative writing guides, self publishing
The Complete Software Developer's Career Guide Dec 10 2020 "Early in his software developer career, John Sonmez discovered that technical knowledge alone isn't enough to break through to the next income level - developers need "soft skills" like the ability to learn new technologies just in time, communicate clearly with management and consulting clients, negotiate a fair hourly rate, and unite teammates and coworkers in working toward a

common goal. Today John helps more than 1.4 million programmers every year to increase their income by developing this unique blend of skills. Who Should Read This Book? Entry-Level Developers - This book will show you how to ensure you have the technical skills your future boss is looking for, create a resume that leaps off a hiring manager's desk, and escape the "no work experience" trap. Mid-Career Developers - You'll see how to find and fill in gaps in your technical knowledge, position yourself as the one team member your boss can't live without, and turn

those dreaded annual reviews into chance to make an iron-clad case for your salary bump. Senior Developers - This book will show you how to become a specialist who can command above-market wages, how building a name for yourself can make opportunities come to you, and how to decide whether consulting or entrepreneurship are paths you should pursue. Brand New Developers - In this book you'll discover what it's like to be a professional software developer, how to go from "I know some code" to possessing the skills to work on a development team, how to speed along your learning by avoiding common

beginner traps, and how to decide whether you should invest in a programming degree or "bootcamp."--
Guide to Available Mathematical Software Jan 11 2021 Presents Guide to Available Mathematical Software, a repository of mathematical and statistical software components of use in computational sciences and engineering, developed by the staff of the Applied and Computational Mathematics Division and the Scientific Computing Environments Division of the Computing and Applied Mathematics Laboratory of the

National Institute of Standards and Technology. Provides glossary of terms, repositories indexed, references and credits, and a Mathematical Software Cross Index offering search by problem solved, package name, or module name. *Guide to the Software Engineering Body of Knowledge (Swebok(r))* May 07 2023 In the Guide to the Software Engineering Body of Knowledge (SWEBOK(R) Guide), the IEEE Computer Society establishes a baseline for the body of knowledge for the field of software engineering, and the work supports the Society's

responsibility to promote the advancement of both theory and practice in this field. It should be noted that the Guide does not purport to define the body of knowledge but rather to serve as a compendium and guide to the knowledge that has been developing and evolving over the past four decades. Now in Version 3.0, the Guide's 15 knowledge areas summarize generally accepted topics and list references for detailed information. The editors for Version 3.0 of the SWEBOK(R) Guide are Pierre Bourque (Ecole de technologie

superieure (ETS), Universite du Quebec) and Richard E. (Dick) Fairley (Software and Systems Engineering Associates (S2EA)). *Complete A+ Guide to IT Hardware and Software Lab Manual* Dec 30 2019 The companion Complete A+ Guide to IT Hardware and Software Lab Manual provides students hands-on practice with various computer parts, mobile devices, wired networking, wireless networking, operating systems, and security. The 155 labs are designed in a step-by-step manner that allows students to experiment with various

technologies and answer questions along the way to consider the steps being taken. Some labs include challenge areas to further practice the new concepts. The labs ensure students gain the experience and confidence required to succeed in industry.

The IFPUG Guide to IT and Software Measurement

Feb 09 2021 The widespread deployment of millions of current and emerging software applications has placed software economic studies among the most critical of any form of business analysis. Unfortunately, a lack of an

integrated suite of metrics makes software economic analysis extremely difficult. The International Function Point Users Group (IFPUG), a nonprofit and member-governed organization, has become the recognized leader in promoting the effective management of application software development and maintenance activities. The IFPUG Guide to IT and Software Measurement brings together 52 leading software measurement experts from 13 different countries who share their insights and expertise. Covering measurement

programs, function points in measurement, new technologies, and metrics analysis, this volume: Illustrates software measurement's role in new and emerging technologies Addresses the impact of agile development on software measurement Presents measurement as a powerful tool for auditing and accountability Includes metrics for the CIO Edited by IFPUG's Management and Reporting Committee, the text is useful for IT project managers, process improvement specialists, measurement professionals, and

business professionals who need to interact with IT professionals and participate in IT decision-making. It includes coverage of cloud computing, agile development, quantitative project management, process improvement, measurement as a tool in accountability, project ROI measurement, metrics for the CIO, value stream mapping, and benchmarking.

Software Project Survival Guide Jun 15 2021 Equip yourself with SOFTWARE PROJECT SURVIVAL GUIDE. It's for everyone with a stake in the outcome of a development

project--and especially for those without formal software project management training. That includes top managers, executives, clients, investors, end-user representatives, project managers, and technical leads. Here you'll find guidance from the acclaimed author of the classics CODE COMPLETE and RAPID DEVELOPMENT. Steve McConnell draws on solid research and a career's worth of hard-won experience to map the surest path to your goal--what he calls "one specific approach to software development that works pretty well most of the time for

most projects." Nineteen chapters in four sections cover the concepts and strategies you need for mastering the development process, including planning, design, management, quality assurance, testing, and archiving. For newcomers and seasoned project managers alike, SOFTWARE PROJECT SURVIVAL GUIDE draws on a vast store of techniques to create an elegantly simplified and reliable framework for project management success. So don't worry about wandering among complex sets of project management techniques that

require years to sort out and master. SOFTWARE PROJECT SURVIVAL GUIDE goes straight to the heart of the matter to help your projects succeed. And that makes it a required addition to every professional's bookshelf.

The Complete Guide to Software As a Service May 27 2022 The Complete Guide to Software as a Service is truly "everything you need to know about SaaS." This is the only book available today that covers the multiple facets of the SaaS model: functional, operational, technical, security and financial. Starting with the definition and the origins of SaaS, it

gives a 360-degree view of the inner workings of a SaaS business. This book is a must read for entrepreneurs who are launching a SaaS company. Learn the six ways to fail your SaaS start-up. It will also guide any software company who is transitioning from an on-premise license model to SaaS. Learn what IT and business functions must evolve when moving from one business model to the next. It also provides useful information and insight to different functional managers within a SaaS company. As well, users of SaaS software will become more knowledgeable clients of their SaaS

providers after reading this book. Learn how to "read between the lines" of your SaaS contract and focus on the clauses where you have real negotiating power. For anyone interested in learning more about this important shift in the software industry, this book fills a void that exists today in the world of SaaS. *Peer Reviews in Software* Sep 30 2022 This practical introduction to peer reviews covers different methods of peer review, from the formal method of inspection to other less formal methods, and addresses the cultural and practical aspects of

both. *Practical Guide to Software Quality Management* Mar 05 2023 If you are responsible for designing, implementing, or managing a quality software program, this updated edition of the Practical Guide to Software Quality Management now identifies 10 major components that make up a solid program in line with ISO 9001 quality management precepts. Thoroughly revised and with new chapters on software safety and software risk management, this comprehensive primer provides you with the starting points for a standardized

documentation system, and analyzes each individual program component separately, addressing in detail its specific role and overall importance to the system. **Developing Safety-Critical Software** Mar 25 2022 The amount of software used in safety-critical systems is increasing at a rapid rate. At the same time, software technology is changing, projects are pressed to develop software faster and more cheaply, and the software is being used in more critical ways. *Developing Safety-Critical Software: A Practical Guide for Aviation Software and DO-178C*

Compliance equips you with the information you need to effectively and efficiently develop safety-critical, life-critical, and mission-critical software for aviation. The principles also apply to software for automotive, medical, nuclear, and other safety-critical domains. An international authority on safety-critical software, the author helped write DO-178C and the U.S. Federal Aviation Administration's policy and guidance on safety-critical software. In this book, she draws on more than 20 years of experience as a certification authority, an avionics manufacturer, an

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certification Insightful coverage of some of the more challenging topics in safety-critical software development and verification, including real-time operating systems, partitioning, configuration data, software reuse, previously developed software, reverse engineering, and outsourcing and offshoring An invaluable reference for systems and software managers, developers, and quality assurance personnel, this book provides a wealth of information to help you develop, manage, and approve safety-critical software more confidently. *Guide to Advanced*

Empirical Software Engineering Feb 04 2023 This book gathers chapters from some of the top international empirical software engineering researchers focusing on the practical knowledge necessary for conducting, reporting and using empirical methods in software engineering. Topics and features include guidance on how to design, conduct and report empirical studies. The volume also provides information across a range of techniques, methods and qualitative and quantitative issues to help build a toolkit applicable to the diverse software

development contexts
A Practitioner's Guide to Software Test Design Apr 06 2023 Written by a leading expert in the field, this unique volume contains current test design approaches and focuses only on software test design. Copeland illustrates each test design through detailed examples and step-by-step instructions.
Guide to Software Development Nov 08 2020 This book addresses how best to make build vs. buy decisions, and what effect such decisions have on the software development life cycle (SDLC). Offering an integrated approach that

includes important management and decision practices, the text explains how to create successful solutions that fit user and customer needs, by mixing different SDLC methodologies.
Features: provides concrete examples and effective case studies; focuses on the skills and insights that distinguish successful software implementations; covers management issues as well as technical considerations, including how to deal with political and cultural realities in organizations; identifies many new alternatives for how to manage and model a system using sophisticated

analysis tools and advanced management practices; emphasizes how and when professionals can best apply these tools and practices, and what benefits can be derived from their application; discusses searching for vendor solutions, and vendor contract considerations.
Designing Secure Software Oct 20 2021 What every software professional should know about security. *Designing Secure Software* consolidates Loren Kohnfelder's more than twenty years of experience into a concise, elegant guide to improving the security of technology products. Written

for a wide range of software professionals, it emphasizes building security into software design early and involving the entire team in the process. The book begins with a discussion of core concepts like trust, threats, mitigation, secure design patterns, and cryptography. The second part, perhaps this book's most unique and important contribution to the field, covers the process of designing and reviewing a software design with security considerations in mind. The final section details the most common coding flaws that create vulnerabilities,

making copious use of code snippets written in C and Python to illustrate implementation vulnerabilities. You'll learn how to:

- Identify important assets, the attack surface, and the trust boundaries in a system
- Evaluate the effectiveness of various threat mitigation candidates
- Work with well-known secure coding patterns and libraries
- Understand and prevent vulnerabilities like XSS and CSRF, memory flaws, and more
- Use security testing to proactively identify vulnerabilities introduced into code
- Review a software design for security flaws effectively and

without judgment Kohnfelder's career, spanning decades at Microsoft and Google, introduced numerous software security initiatives, including the co-creation of the STRIDE threat modeling framework used widely today. This book is a modern, pragmatic consolidation of his best practices, insights, and ideas about the future of software.

A Practical Guide to Software Licensing for Licensees and Licensors

Apr 13 2021 This new Second Edition updates its first edition published in 2005 by examining the fundamental issues that both licensees and

licensees confront in the negotiation of a software license. This resource is accompanied by and cross-referenced to an annotated software license. A detailed index and companion CD-ROM is also included for customization of the software license and related forms. *Guide to Software Systems Development* May 03 2020 This book argues that the key problems of software systems development (SSD) are socio-technical rather than purely technical in nature. Software systems are unique. They are the only human artefacts that are both intangible and determinant. This presents

unprecedented problems for the development process both in determining what is required and how it is developed. Primarily this is a problem of communications between stakeholders and developers, and of communications within the development team. Current solutions are not only inadequate in expressing the technical problem, they also evade the communications problems almost entirely. Whilst the book addresses the theoretical aspects of the process, its fundamental philosophy is anchored in the practical problems of everyday software

development. It therefore offers both a better understanding of the problems of SSD and practical suggestions of how to deal with those problems. It is intended as a guide for practising IT project managers, particularly those who are relatively new to the position or do not have a strong IT development background. The book will also benefit students in computing and computer-related disciplines who need to know how to develop high quality systems. Software systems development (particularly of large projects) has a notoriously poor track record of delivering projects

on time, on budget, and of meeting user needs. Proponents of software engineering suggest that this is because too few project managers actually comply with the disciplines demanded of the process. It is time to ask the question, if this is the case, why might this be? Perhaps instead, it is not the project managers who are wrong, but the definition of the process. The new understanding of the SSD presented here offers alternative models that can help project managers address the difficulties they face and better achieve the targets they are set. This book argues that time is up for the

software engineering paradigm of SSD and that it should be replaced with a socio-technical paradigm based on open systems thinking.

Practical Guide to Machine Vision

Software Sep 06 2020 For both students and engineers in R&D, this book explains machine vision in a concise, hands-on way, using the Vision Development Module of the LabView software by National Instruments. Following a short introduction to the basics of machine vision and the technical procedures of image acquisition, the book goes on to guide readers in the use of the various

software functions of LabView's machine vision module. It covers typical machine vision tasks, including particle analysis, edge detection, pattern and shape matching, dimension measurements as well as optical character recognition, enabling readers to quickly and efficiently use these functions for their own machine vision applications. A discussion of the concepts involved in programming the Vision Development Module rounds off the book, while example problems and exercises are included for training purposes as well as to further explain the concept

of machine vision. With its step-by-step guide and clear structure, this is an essential reference for beginners and experienced researchers alike. *IBM System Storage N series Software Guide* April 2020 Corporate workgroups, distributed enterprises, and small to medium-sized companies are increasingly seeking to network and consolidate storage to improve availability, share information, reduce costs, and protect and secure information. These organizations require enterprise-class solutions capable of addressing immediate storage needs cost-

effectively, while providing an upgrade path for future requirements. IBM® System Storage® N series storage systems and their software capabilities are designed to meet these requirements. IBM System Storage N series storage systems offer an excellent solution for a broad range of deployment scenarios. IBM System Storage N series storage systems function as a multiprotocol storage device that is designed to allow you to simultaneously serve both file and block-level data across a single network. These activities are demanding

procedures that, for some solutions, require multiple, separately managed systems. The flexibility of IBM System Storage N series storage systems, however, allows them to address the storage needs of a wide range of organizations, including distributed enterprises and data centers for midrange enterprises. IBM System Storage N series storage systems also support sites with computer and data-intensive enterprise applications, such as database, data warehousing, workgroup collaboration, and messaging. This IBM Redbooks® publication explains

the software features of the IBM System Storage N series storage systems. This book also covers topics such as installation, setup, and administration of those software features from the IBM System Storage N series storage systems and clients and provides example scenarios.

Remote Delivery

Oct 08 2020 This book records the author's years of experience in the software industry. In his own practices, the author has found that the distributed work pattern has become increasingly popular in more and more work environments, either between

vendors and customers or between different teams inside a company. This means that all practitioners in the software industry need to adapt to this new way of communication and collaboration and get skilled enough to meet the greater challenges in integrating the distributed work pattern with agile software delivery. By centering on the difficulties in communication and collaboration between distributed teams, this book digs into the reasons why so many remote delivery projects end up anticlimactic and provides solutions for readers' reference. It also

cites successful cases in promoting agile development in distributed teams, which has been a vexing problem for many software development companies. In addition, readers can find suggestions and measures for building self-managing teams in this book. Remote Delivery: A Guide to Software Delivery through Collaboration between Distributed Teams is a very practical guide for software delivery teams with their members distributed in different places and companies engaged in software customization. Developers, QAs, product managers,

and project leaders can also be inspired by this book.

Software Project Survival Guide

Dec 02 2022 Looks at a successful software project and provides details for software development for clients using object-oriented design and programming.

Complete A+ Guide to IT Hardware and Software

Jul 29 2022 Master IT hardware and software installation, configuration, repair, maintenance, and troubleshooting and fully prepare for the CompTIA® A+ Core 1 (220-1001) and Core 2 (220-1002) exams. This is your all-in-one, real-world, full-color guide to

connecting, managing, and troubleshooting modern devices and systems in authentic IT scenarios. Its thorough instruction built on the CompTIA A+ Core 1 (220-1001) and Core 2 (220-1002) exam objectives includes coverage of Windows 10, Mac, Linux, Chrome OS, Android, iOS, cloud-based software, mobile and IoT devices, security, Active Directory, scripting, and other modern techniques and best practices for IT management. Award-winning instructor Cheryl Schmidt also addresses widely-used legacy technologies—making this the definitive resource

for mastering the tools and technologies you'll encounter in real IT and business environments. Schmidt's emphasis on both technical and soft skills will help you rapidly become a well-qualified, professional, and customer-friendly technician. LEARN MORE QUICKLY AND THOROUGHLY WITH THESE STUDY AND REVIEW TOOLS: Learning Objectives and chapter opening lists of CompTIA A+ Certification Exam Objectives make sure you know exactly what you'll be learning, and you cover all you need to know Hundreds of photos, figures, and

tables present information in a visually compelling full-color design Practical Tech Tips provide real-world IT tech support knowledge Soft Skills best-practice advice and team-building activities in every chapter cover key tools and skills for becoming a professional, customer-friendly technician Review Questions—including true/false, multiple choice, matching, fill-in-the-blank, and open-ended questions—carefully assess your knowledge of each learning objective Thought-provoking activities help students apply and reinforce chapter content, and allow instructors to “flip” the classroom if

they choose Key Terms identify exam words and phrases associated with each topic Detailed Glossary clearly defines every key term Dozens of Critical Thinking Activities take you beyond the facts to deeper understanding Chapter Summaries recap key concepts for more efficient studying Certification Exam Tips provide insight into the certification exam and preparation process Team Geek Jun 03 2020 In a perfect world, software engineers who produce the best code are the most successful. But in our perfectly messy world, success also depends on how you work with

people to get your job done. In this highly entertaining book, Brian Fitzpatrick and Ben Collins-Sussman cover basic patterns and anti-patterns for working with other people, teams, and users while trying to develop software. This is valuable information from two respected software engineers whose popular series of talks—including "Working with Poisonous People"—has attracted hundreds of thousands of followers. Writing software is a team sport, and human factors have as much influence on the outcome as technical factors. Even if you’ve spent

decades learning the technical side of programming, this book teaches you about the often-overlooked human component. By learning to collaborate and investing in the "soft skills" of software engineering, you can have a much greater impact for the same amount of effort. Team Geek was named as a Finalist in the 2013 Jolt Awards from Dr. Dobb's Journal. The publication's panel of judges chose five notable books, published during a 12-month period ending June 30, that every serious programmer should read.

The Software Requirements Sep 18 2021 The

Software Requirements Memory Jogger is an easy-to-use guide for developing and managing precise software requirements. The Software Requirements Memory Jogger provides every member of your project team with the tools and techniques to foster communication between business and technical teams on the necessary requirements for producing successful software. The Software Requirements Memory Jogger will benefit all stakeholders at any organizational level involved in software development projects management team,

practitioners, QA/QC personnel. - Explore practical steps, tips, and examples to help you develop and manage requirements - Follow the User Requirements Roadmap a toolkit of techniques for discovering and analyzing user requirements - Streamline communications between all requirements stakeholders - Learn how to write clear, concise requirements documents [Concise Guide to Software Testing](#) May 15 2021 This practically-focused textbook provides a concise and accessible introduction to the field of software testing, explaining

the fundamental principles and offering guidance on applying the theory in an industrial environment. Topics and features: presents a brief history of software quality and its influential pioneers, as well as a discussion of the various software lifecycles used in software development; describes the fundamentals of testing in traditional software engineering, and the role that static testing plays in building quality into a product; explains the process of software test planning, test analysis and design,

and test management; discusses test outsourcing, and test metrics and problem solving; reviews the tools available to support software testing activities, and the benefits of a software process improvement initiative; examines testing in the Agile world, and the verification of safety critical systems; considers the legal and ethical aspects of software testing, and the importance of software configuration management; provides key learning topics and review questions in every chapter, and supplies a helpful

glossary at the end of the book. This easy-to-follow guide is an essential resource for undergraduate students of computer science seeking to learn about software testing, and how to build high quality and reliable software on time and on budget. The work will also be of interest to industrialists including software engineers, software testers, quality professionals and software managers, as well as the motivated general reader.

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