

Software By Numbers Low Risk High Return Development

"Agile Excellence for Product Managers" is a plain-speaking guide on how to work with Agile development teams to achieve phenomenal product success. It covers the why and how of agile development (including Scrum, XP, and Lean,) the role of product management, release planning, and more.

A hands-on guide to testing techniques that deliver reliable software and systems Testing even a simple system can quickly turn into a potentially infinite task. Faced with tight costs and schedules, testers need to have a toolkit of practical techniques combined with hands-on experience and the right strategies in order to complete a successful project. World-renowned testing expert Rex Black provides you with the proven methods and concepts that test professionals must know. He presents you with the fundamental techniques for testing and clearly shows you how to select and apply successful strategies to test a system with budget and time constraints. Black begins by discussing the goals and tactics of effective and efficient testing. Next, he lays the foundation of his technique for risk-based testing, explaining how to analyze, prioritize, and document risks to the quality of the system using both informal and formal techniques. He then clearly describes how to design, develop, and, ultimately, document various kinds of tests. Because this is a hands-on activity, Black includes realistic, life-sized exercises that illustrate all of the major test techniques with detailed solutions. By the end of this book, you'll know more about the nuts and bolts of testing than most testers learn in an entire career, and you'll be ready to put those ideas into action on your next test project. With the help of real-world examples integrated throughout the chapters, you'll discover how to:

- Analyze the risks to system quality**
- Allocate your testing effort appropriately based on the level of risk**
- Choose the right testing strategies every time**
- Design tests based on a system's expected behavior (black box) or internal structure (white box)**
- Plan and perform integration testing**
- Explore and attack the system**
- Focus your hard work to serve the needs of the project**

The author's companion Web site provides exercises, tips, and techniques that can be used to gain valuable experience and effectively test software and systems. Wiley Technology Publishing Timely. Practical. Reliable. Visit the author's Web site at <http://www.rexblackconsulting.com/>

The all-inclusive guide to exceptional project management The Fast Forward MBA in Project Management is the comprehensive guide to

real-world project management methods, tools, and techniques. Practical, easy-to-use, and deeply thorough, this book gives you answers you need now. You'll find the cutting-edge ideas and hard-won wisdom of one of the field's leading experts, delivered in short, lively segments that address common management issues. Brief descriptions of important concepts, tips on real-world applications, and compact case studies illustrate the most sought-after skills and the pitfalls you should watch out for. This new fifth edition features new case studies, new information on engaging stakeholders, change management, new guidance on using Agile techniques, and new content that integrates current events and trends in the project management sphere. Project management is a complex role, with seemingly conflicting demands that must be coordinated into a single, overarching, executable strategy — all within certain time, resource, and budget constraints. This book shows you how to get it all together and get it done, with expert guidance every step of the way. Navigate complex management issues effectively Master key concepts and real-world applications Learn from case studies of today's leading experts Keep your project on track, on time, and on budget From finding the right sponsor to clarifying objectives to setting a realistic schedule and budget projection, all across different departments, executive levels, or technical domains, project management incorporates a wide range of competencies. The Fast Forward MBA in Project Management shows you what you need to know, the best way to do it, and what to watch out for along the way.

"... an engaging book that will empower readers in both large and small software development and engineering organizations to build security into their products. ... Readers are armed with firm solutions for the fight against cyber threats." —Dr. Dena Haritos Tsamitis,

Carnegie Mellon University "... a must read for security specialists, software developers and software engineers. ... should be part of every security professional's library." —Dr. Larry Ponemon, Ponemon

Institute "... the definitive how-to guide for software security professionals. Dr. Ransome, Anmol Misra, and Brook Schoenfield deftly outline the procedures and policies needed to integrate real security into the software development process. ...A must-have for anyone on the front lines of the Cyber War ..." —Cedric Leighton, Colonel, USAF (Ret.), Cedric Leighton Associates "Dr. Ransome, Anmol Misra, and Brook Schoenfield give you a magic formula in this book - the methodology and process to build security into the entire software development life cycle so that the software is secured at the source! " —Eric S. Yuan, Zoom Video Communications There is much publicity regarding network security, but the real cyber Achilles' heel is

insecure software. Millions of software vulnerabilities create a cyber house of cards, in which we conduct our digital lives. In response, security people build ever more elaborate cyber fortresses to protect this vulnerable software. Despite their efforts, cyber fortifications consistently fail to protect our digital treasures. Why? The security industry has failed to engage fully with the creative, innovative people who write software. Core Software Security expounds developer-centric software security, a holistic process to engage creativity for security. As long as software is developed by humans, it requires the human element to fix it. Developer-centric security is not only feasible but also cost effective and operationally relevant. The methodology builds security into software development, which lies at the heart of our cyber infrastructure. Whatever development method is employed, software must be secured at the source. Book Highlights: Supplies a practitioner's view of the SDL Considers Agile as a security enabler Covers the privacy elements in an SDL Outlines a holistic business-savvy SDL framework that includes people, process, and technology Highlights the key success factors, deliverables, and metrics for each phase of the SDL Examines cost efficiencies, optimized performance, and organizational structure of a developer-centric software security program and PSIRT Includes a chapter by noted security architect Brook Schoenfield who shares his insights and experiences in applying the book's SDL framework View the authors' website at

<http://www.androidinsecurity.com/>

Computational Intelligence and Information Technology

The Business Value of IT

15th International Working Conference, REFSQ 2009 Amsterdam, The Netherlands, June 8-9, 2009 Proceedings

A Systems Approach to Planning, Scheduling, and Controlling

Applied Software Project Management

The Agile Project Manager

Evaluation of Novel Approaches to Software Engineering

This book constitutes the proceedings of the First International Conference on Computational Intelligence and Information

Technology, CIIT 2011, held in Pune, India, in November 2011.

The 58 revised full papers, 67 revised short papers, and 32 poster papers presented were carefully reviewed and selected

from 483 initial submissions. The papers are contributed by innovative academics and industrial experts in the field of

computer science, information technology, computational engineering, mobile communication and security and offer a stage

to a common forum, where a constructive dialog on theoretical concepts, practical ideas and results of the state of the art

can be developed.

The landmark project management reference, now in a new edition Now in a Tenth Edition, this industry-leading project management "bible" aligns its streamlined approach to the latest release of the Project Management Institute's Project Management Body of Knowledge (PMI®'s PMBOK® Guide), the new mandatory source of training for the Project Management Professional (PMP®) Certification Exam. This outstanding edition gives students and professionals a profound understanding of project management with insights from one of the best-known and respected authorities on the subject. From the intricate framework of organizational behavior and structure that can determine project success to the planning, scheduling, and controlling processes vital to effective project management, the new edition thoroughly covers every key component of the subject. This Tenth Edition features: New sections on scope changes, exiting a project, collective belief, and managing virtual teams More than twenty-five case studies, including a new case on the Iridium Project covering all aspects of project management 400 discussion questions More than 125 multiple-choice questions (PMI, PMBOK, PMP, and Project Management Professional are registered marks of the Project Management Institute, Inc.) This two-volume set LNCS 4277/4278 constitutes the refereed proceedings of 14 international workshops held as part of OTM 2006 in Montpellier, France in October/November 2006. The 191 revised full papers presented were carefully reviewed and selected from a total of 493 submissions to the workshops. The first volume begins with 26 additional revised short or poster papers of the OTM 2006 main conferences.

Corey Ladas' groundbreaking paper "ScrumBan" has captured the imagination of the software development world. Scrum and agile methodologies have helped software development teams organize and become more efficient. Lean methods like kanban can extend these benefits. Kanban also provides a powerful mechanism to identify process improvement opportunities. This book covers some of the metrics and day-to-day management techniques that make continuous improvement an achievable outcome in the real world. ScrumBan the book provides a series of essays that give practitioners the background needed to create more robust practices combining the best of agile and lean.

Scrumban - Essays on Kanban Systems for Lean Software Development

Agility Across Time and Space

The Art of Agile Development

Security at the Source

Just Enough Software Architecture

5th International Conference, ENASE 2010, Athens, Greece, July

22-24, 2010, Revised Selected Papers

20th International Working Conference, REFSQ 2014, Essen, Germany, April 7-10, 2014, Proceedings

Information is considered both an essential element of organizational design and an asset to be processed and managed. Further research on and application of topics relating to the architecture, management, and use of information is imperative to organizational success. The Handbook of Research on Information Architecture and Management in Modern Organizations focuses on information as an essential element of organizational design and emphasizes the strategic role of knowledge transfer and management in organizations across industries. Taking a cross-disciplinary approach to information architecture and management, this publication draws on research essential to diverse organizations and is designed for use by business professionals, researchers, academicians, and upper-level students. This comprehensive reference work features key research and concepts on topics related to information functionality, information modeling, information overload, information retrieval, innovation management, organizational architecture, informed governance, and relevant applications across industries.

This open access book presents a set of basic techniques for estimating the benefit of IT development projects and portfolios. It also offers methods for monitoring how much of that estimated benefit is being achieved during projects. Readers can then use these benefit estimates together with cost estimates to create a benefit/cost index to help them decide which functionalities to send into construction and in what order. This allows them to focus on constructing the functionality that offers the best value for money at an early stage. Although benefits management involves a wide range of activities in addition to estimation and monitoring, the techniques in this book provides a clear guide to achieving what has always been the goal of project and portfolio stakeholders: developing systems that produce as much usefulness and value as possible for the money invested. The techniques can also help deal with vicarious motives and obstacles that prevent this happening. The book equips readers to recognize when a project budget should not be spent in full and resources be allocated elsewhere in a portfolio instead. It also provides development managers and upper management with common ground as a basis for making informed decisions.

This book covers topics such as AeroSpace Systems, Intelligent Systems, Machine Learning and Analytics, Internet of Things, Applied Media Informatics and Technology, Adaptive Control

Systems, Software Engineering and Cyber-Physical Systems. Research in the discipline of Systems Engineering is an important concept in the advancement of engineering and information sciences. Systems Engineering attempts to integrate many of the traditional engineering disciplines to solve large complex functioning engineering systems, dependent on components from all the disciplines. The research papers contained in these proceedings reflect the state of the art in Systems Engineering from all over the world and serve as vital references to researchers to follow. This book is a very good resource for graduate students, researchers and scholars who want to learn about the most recent development in the fields.

This book gives a comprehensive overview on Software Product Management (SPM) for beginners as well as best practices, methodology and in-depth discussions for experienced product managers. This includes product strategy, product planning, participation in strategic management activities and orchestration of the functional units of the company. The book is based on the results of the International Software Product Management Association (ISPMA) which is led by a group of SPM experts from industry and research with the goal to foster software product management excellence across industries. This book can be used as textbook for ISPMA-based education and as guide for anybody interested in SPM as one of the most exciting and challenging disciplines in the business of software. Hans-Bernd Kittlaus is the Chairman of ISPMA and owner and managing director of InnoTivum Consulting, Germany. Samuel Fricker is Board Member of ISPMA and Professor at FHNW, Switzerland.

Effective Methods for Software Testing

Pragmatic Contracting and Collaboration in Agile Software Projects

Proven Strategies for Managing Software Engineers

Becoming an Effective and Efficient Test Professional

First International Conference, CIIT 2011, Pune, India, November 7-8, 2011. Proceedings

Low-Risk, High-Return Development

Software in 30 Days

In order to maximize IT resources and justify IT expenditures, CIO's and other IT managers must be able to identify meaningful metrics and explain them in a way that management can understand. The Business Value of IT: Managing Risks, Optimizing Performance, and Measuring Results solves this problem by providing practical answers to these questions: What does IT contribute to the business? Why should we care about IT governance? How can we best measure IT performance? How do we mitigate the risks associated with change? Leading consultants Michael D. Harris, David E. Herron, and Stasia Iwanicki share their real-world experiences to explain how you can demonstrate IT's value, and

potentially find extra value you didn't know your IT organization creates. They also show how to apply risk management to process improvement and avoid unintended consequences of process improvement programs. The text provides the understanding required to discover the processes necessary to: prioritize your organization's IT activities. identify alternative measurement frameworks, and evaluate the best approaches to outsourcing. Many IT organizations have successfully implemented the techniques described in this book to increase their business value. This work identifies the organizational and cultural obstacles you need to remove to get started along the same path.

Rather than deciding whether or not to get involved in global sourcing, many companies are facing decisions about whether or not to apply agile methods in their distributed projects. These companies are often motivated by the opportunities to solve the coordination and communication difficulties associated with global software development. Yet while agile principles prescribe close interaction and co-location, the very nature of distributed software development does not support these prerequisites. Šmite, Moe, and Ågerfalk structured the book into five parts. In "Motivation" the editors introduce the fundamentals of agile distributed software development and explain the rationale behind the application of agile practices in globally distributed software projects. "Transition" describes implementation strategies, adoption of particular agile practices for distributed projects, and general concepts of agility. "Management" details practical implications for project planning, time management, and customer and subcontractor interaction. "Teams" discusses agile distributed team configuration, effective communication and knowledge transfer, and allocation of roles and responsibilities. Finally, in the "Epilogue" the editors summarize all contributions and present future trends for research and practice in agile distributed development. This book is primarily targeted at researchers, lecturers, and students in empirical software engineering, and at practitioners involved in globally distributed software projects. The contributions are based on sound empirical research and identify gaps and commonalities in both the existing state of the art and state of the practice. In addition, they also offer practical advice through many hints, checklists, and experience reports. Questions answered in this book include: What should companies expect from merging agile and distributed strategies? What are the stumbling blocks that prevent companies from realizing the benefits of the agile approach in distributed environments, and how can we recognize infeasible strategies and unfavorable circumstances? What helps managers cope with the challenges of implementing agile approaches in distributed software development projects? How can distributed teams survive the decisions taken by management and become efficient through the application of agile approaches?

As the technology leader at a small software company, you need to focus on people, products, processes, and technology as you bring your software to market, while doing your best to put out fires and minimize headaches. Growing Software is your guide to juggling the day-to-day challenges of running a software company while managing those long-term problems and making sure that your business continues to grow. With practical, hands-on advice, Growing

Software will teach you how to build and lead an effective team, define and sell your products, work with everyone from customers to CEOs, and ensure high-quality results. Instead of learning by trial and error, you'll benefit from author Louis Testa's 20+ years of management experience. Testa combines big-picture advice, specific solutions, and real-life anecdotes to teach you how to: –Work effectively with your CEO and executive team –Improve development team efficiency and enthusiasm –Evaluate your software methodology to improve effectiveness and safeguard against failure –Use product prototypes to bridge the gap between marketing and engineering –Defuse technology time bombs Whether you're new to managing software or newly lost, Growing Software will help you and your growing company thrive.

“We need better approaches to understanding and managing software requirements, and Dean provides them in this book. He draws ideas from three very useful intellectual pools: classical management practices, Agile methods, and lean product development. By combining the strengths of these three approaches, he has produced something that works better than any one in isolation.” –From the Foreword by Don Reinertsen, President of Reinertsen & Associates; author of Managing the Design Factory; and leading expert on rapid product development Effective requirements discovery and analysis is a critical best practice for serious application development. Until now, however, requirements and Agile methods have rarely coexisted peacefully. For many enterprises considering Agile approaches, the absence of effective and scalable Agile requirements processes has been a showstopper for Agile adoption. In Agile Software Requirements, Dean Leffingwell shows exactly how to create effective requirements in Agile environments. Part I presents the “big picture” of Agile requirements in the enterprise, and describes an overall process model for Agile requirements at the project team, program, and portfolio levels Part II describes a simple and lightweight, yet comprehensive model that Agile project teams can use to manage requirements Part III shows how to develop Agile requirements for complex systems that require the cooperation of multiple teams Part IV guides enterprises in developing Agile requirements for ever-larger “systems of systems,” application suites, and product portfolios This book will help you leverage the benefits of Agile without sacrificing the value of effective requirements discovery and analysis. You'll find proven solutions you can apply right now—whether you're a software developer or tester, executive, project/program manager, architect, or team leader.

A Risk-Driven Approach

Essential Scrum

The TameFlow Approach and Its Application to Scrum and Kanban

OTM Confederated International Conferences and Posters, AWeSOMe, CAMS, COMINF, IS, KSinBIT, MIOS-CIAO, MONET, OnToContent, ORM, PerSys, OTM Academy Doctoral Consortium, RDDS, SWWS, SeBGIS 2006, Montpellier, France, October 29 - November 3, 2006, Proceedings

Includes Complete Guidelines, Checklists, and Templates

**A Guide to Creating Winning Products with Agile Development Teams
Project Management**

“Reading Hyper-Productive Knowledge Work Performance has influenced my thinking more than any other recent book I have read about how to transform my company’s culture to achieve higher levels of productivity. It’s like the perfect mix of Fred Brooks, W. Edwards Deming, Donald Reinertsen, David Anderson, and Jeff Sutherland all rolled into one approachable and pragmatic book. I recognized a lot of what I already knew and then was pleasantly surprised with how the authors used hyper-productivity to show how it all interconnected. All in all, it is an eye opening book that provides a concrete path to hyper-productivity.” —Curt Hibbs, Chief Agile Evangelist, Boeing This unique reference shows how to lead knowledge workers, manage knowledge work and build a hyper-productive knowledge work organization, by taming and managing the four flows of organizational performance (psychology, information, work and finance) to produce spectacular operational and financial throughput results. Inspired by his experience and knowledge gained at Borland International, where a hyper-productive level of performance was achieved resulting in the most productive software project ever documented, author Steve Tendon devised TameFlow. TameFlow is an approach that can be superimposed on any preexisting process, method, and practice to enable performance improvement by several orders of magnitude and a state of hyper-productivity. It is adaptable to nearly every industry, and can be applied to any knowledge work domain or organization that generates business value through knowledge. TameFlow blends and merges different ideas from a variety of schools of thought. It is founded in pattern theory and organizational performance patterns which are used to analyze and decompose processes, methodologies, and management practices into constituent parts to observe productivity patterns, and then they are recombined in new configurations to enable hyper-productive levels of performance. In this volume of The TameFlow Hyper-Productivity Series, the TameFlow approach is explained within the context of knowledge work performed in a software development organization. Mr. Tendon teams up with author, Wolfram Müller, a thought-leader and expert in Critical Chain and Advanced Agile Project Management to illustrate its application to Scrum, the most widely used Agile software project management framework, and to Kanban, a method used for knowledge work with an emphasis on just-in-time delivery and change management. The authors demonstrate how constraints management (TOC) can improve Scrum and Kanban in powerful ways, bringing more predictability of behavior of the system as a whole, as well as to the individuals involved. Their combination becomes a breeding ground for the development of Unity of Purpose and Community of Trust. Both Scrum and Kanban can be extended with features of the TOC,

and help create a hyper-productive organization.

Written by the founder and executive director of the Quality Assurance Institute, which sponsors the most widely accepted certification program for software testing Software testing is a weak spot for most developers, and many have no system in place to find and correct defects quickly and efficiently This comprehensive resource provides step-by-step guidelines, checklists, and templates for each testing activity, as well as a self-assessment that helps readers identify the sections of the book that respond to their individual needs Covers the latest regulatory developments affecting software testing, including Sarbanes-Oxley Section 404, and provides guidelines for agile testing and testing for security, internal controls, and data warehouses CD-ROM with all checklists and templates saves testers countless hours of developing their own test documentation Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file.

This is a practical guide for software developers, and different than other software architecture books. Here's why: It teaches risk-driven architecting. There is no need for meticulous designs when risks are small, nor any excuse for sloppy designs when risks threaten your success. This book describes a way to do just enough architecture. It avoids the one-size-fits-all process tar pit with advice on how to tune your design effort based on the risks you face. It democratizes architecture. This book seeks to make architecture relevant to all software developers. Developers need to understand how to use constraints as guiderails that ensure desired outcomes, and how seemingly small changes can affect a system's properties. It cultivates declarative knowledge. There is a difference between being able to hit a ball and knowing why you are able to hit it, what psychologists refer to as procedural knowledge versus declarative knowledge. This book will make you more aware of what you have been doing and provide names for the concepts. It emphasizes the engineering. This book focuses on the technical parts of software development and what developers do to ensure the system works not job titles or processes. It shows you how to build models and analyze architectures so that you can make principled design tradeoffs. It describes the techniques software designers use to reason about medium to large sized problems and points out where you can learn specialized techniques in more detail. It provides practical advice. Software design decisions influence the architecture and vice versa. The approach in this book embraces drill-down/pop-up behavior by describing models that have various levels of abstraction, from architecture to data structure design.

Threats to application security continue to evolve just as quickly as

the systems that protect against cyber-threats. In many instances, traditional firewalls and other conventional controls can no longer get the job done. The latest line of defense is to build security features into software as it is being developed. Drawing from the author's extensive experience as a developer, Secure Software Development: Assessing and Managing Security Risks illustrates how software application security can be best, and most cost-effectively, achieved when developers monitor and regulate risks early on, integrating assessment and management into the development life cycle. This book identifies the two primary reasons for inadequate security safeguards: Development teams are not sufficiently trained to identify risks; and developers falsely believe that pre-existing perimeter security controls are adequate to protect newer software. Examining current trends, as well as problems that have plagued software security for more than a decade, this useful guide: Outlines and compares various techniques to assess, identify, and manage security risks and vulnerabilities, with step-by-step instruction on how to execute each approach Explains the fundamental terms related to the security process Elaborates on the pros and cons of each method, phase by phase, to help readers select the one that best suits their needs Despite decades of extraordinary growth in software development, many open-source, government, regulatory, and industry organizations have been slow to adopt new application safety controls, hesitant to take on the added expense. This book improves understanding of the security environment and the need for safety measures. It shows readers how to analyze relevant threats to their applications and then implement time- and money-saving techniques to safeguard them.

Risk Assessment with Uncertain Numbers

A Practical Guide to the Most Popular Agile Process

Assessing and Managing Security Risks

From Concept to Cash

Software for People

Proceedings of the 27th International Conference on Systems Engineering, ICSEng 2020

Adapting Configuration Management for Agile Teams

"Mantle and Lichty have assembled a guide that will help you hire, motivate, and mentor a software development team that functions at the highest level. Their rules of thumb and coaching advice are great blueprints for new and experienced software engineering managers alike." —Tom Conrad, CTO, Pandora "I wish I'd had this material available years ago. I see lots and lots of 'meat' in here that I'll use over and over again as I try to become a better manager. The writing

style is right on, and I love the personal anecdotes.”

—Steve Johnson, VP, Custom Solutions, DigitalFish All too often, software development is deemed unmanageable. The news is filled with stories of projects that have run catastrophically over schedule and budget. Although adding some formal discipline to the development process has improved the situation, it has by no means solved the problem. How can it be, with so much time and money spent to get software development under control, that it remains so unmanageable? In *Managing the Unmanageable: Rules, Tools, and Insights for Managing Software People and Teams*, Mickey W. Mantle and Ron Lichty answer that persistent question with a simple observation: You first must make programmers and software teams manageable. That is, you need to begin by understanding your people—how to hire them, motivate them, and lead them to develop and deliver great products. Drawing on their combined seventy years of software development and management experience, and highlighting the insights and wisdom of other successful managers, Mantle and Lichty provide the guidance you need to manage people and teams in order to deliver software successfully. Whether you are new to software management, or have already been working in that role, you will appreciate the real-world knowledge and practical tools packed into this guide.

This book constitutes the refereed proceedings of the 15th International Working Conference on Requirements Engineering: Foundation for Software Quality, REFSQ 2009, held in Amsterdam, The Netherlands, in June 2009. The 14 revised full papers were carefully reviewed and selected from 49 submissions. The papers are organized in thematic sections on value and risk, change and evolution, interactions and inconsistencies, organization and structuring, experience, elicitation, research methods, behavior modeling, empirical studies, and open-source RE.

Many analysts use point estimates and ignore their uncertainty. But we can never be sure about the exact values of numbers based on data. And no practical calculations are without error, even though they may have the appearance of precision. RAMAS® Risk Calc 4.0 Software: Risk Assessment with Uncertain Numbers uses traditional methods such as probability theory and interval analysis and the newest techniques such as probability bounds analysis and fuzzy arithmetic to quantify uncertainty in risk assessments. It

creates a convenient environment for computing in which all uncertainties are carried forward automatically. Providing examples in four major application areas, Risk Calc brings sophisticated methods of uncertainty analysis into the reach of anyone who can do arithmetic on a calculator.

Provides information on planning and managing a software project.

Managing Risks, Optimizing Performance and Measuring Results

The Australian Accountant

Handbook of Research on Democratic Strategies and Citizen-Centered E-Government Services

How Agile Managers Beat the Odds, Delight Their Customers, and Leave Competitors in the Dust

Implementing Agile Methods in Global Software Projects

Hyper-Productive Knowledge Work Performance

The Fast Forward MBA in Project Management

Metrics for software development are usually employed ad-hoc and without clear directions for interpreting the numbers and acting on them. Almost every other engineering discipline has clear guidelines for measuring processes and products and making decisions based on quantified evidence. This practical book describes how to integrate processes and metrics to ensure easier and more effective enterprise software development. It crosses the divide between theory and practice and also discusses why essential processes so often fail to deliver quality industrial software. Enterprise Software Development introduces the techniques for building, applying and interpreting metrics for the workflows across the software development life cycle phases of inception, elaboration, construction and transition. It is a must read for software engineering practitioners (architects, application developers, designers and project managers), academics, and students and apprentices of software engineering.

For those considering Extreme Programming, this book provides no-nonsense advice on agile planning, development, delivery, and management taken from the authors' many years of experience. While plenty of books address the what and why of agile development, very few offer the information users can apply directly.

Over the past few years, e-government has been rapidly changing the way governmental services are provided to citizens and businesses. These services improve business and government exchange capability, provide a new way to discover and share information, and play a part in the evolution of future technologies. The Handbook of Research on Democratic Strategies and Citizen-Centered E-Government Services seeks to address which services in e-government should be provided to users and how. This premier reference work gives an overview of the latest achievements in the field of e-government services, provides in-depth analysis of and research on the development and deployment of cutting-edge applications, and provides insight into future trends for researchers, teachers, students, government workers, and IT professionals.

This book constitutes extended, revised and selected papers from the 22nd

International Conference on Enterprise Information Systems, ICEIS 2020, held online during May 5-7, 2020. The 41 papers presented in this volume were carefully reviewed and selected for inclusion in this book from a total of 255 submissions. They were organized in topical sections as follows: database and information systems integration; artificial intelligence and decision support systems; information systems analysis and specification; software agents and internet computing; human-computer interaction; and enterprise architecture.

Agile Software Requirements

With Benefit Points and Size Points

Metrics-driven Enterprise Software Development

Effectively Meeting Evolving Business Needs

Requirements Engineering: Foundation for Software Quality

Agile Excellence for Product Managers

Core Software Security

Adapting Configuration Management for Agile Teams provides very tangible approaches on how Configuration Management with its practices and infrastructure can be adapted and managed in order to directly benefit agile teams. Written by Mario E. Moreira, author of Software Configuration Management Implementation Roadmap, columnist for CM Crossroads online community and writer for the Agile Journal, this unique book provides concrete guidance on tailoring CM for Agile projects without sacrificing the principles of Configuration Management.

The highly competitive and globalized software market is creating pressure on software companies. Given the current boundary conditions, it is critical to continuously increase time-to-market and reduce development costs. In parallel, driven by private life experiences with mobile computing devices, the World Wide Web and software-based services, peoples' general expectations with regards to software are growing. They expect software that is simple and joyful to use. In the light of the changes that have taken place in recent years, software companies need to fundamentally reconsider the way they develop and deliver software to their customers. This book introduces fundamentals, trends and best practices in the software industry from a threefold perspective which equally takes into account design, management, and development of software. It demonstrates how cross-functional integration can be leveraged by software companies to successfully build software for people. Professionals from business and academia give an overview on state-of-the-art knowledge and report on key insights from their real-life experience. They provide guidance and hands-on recommendation on how to create winning products. This combined perspective fosters the transfer of knowledge between research and practice and offers a high practical value for both sides. The book targets both, practitioners and academics looking for successfully building software in the future. It is directed at Managing Directors of software companies, Software Project Managers, Product Managers and Designers, Software Developers as well as academics and students in the area of Software and Information Systems Engineering, Human

Computer Interaction (HCI), and Innovation Management. ?

- Opens the black box of methodologies and demonstrates that software development is fundamentally a value creation process - Covers new and radical approaches to software development that respond to business demands for shorter investment periods and increased agility - Provides software engineers tools for understanding enterprise-level value creation and managing financial objectives

Rev. ed. of: Cultivating successful software development. c1997.

Successful Software Development

RAMAS Risk Calc 4.0 Software

Handbook of Research on Information Architecture and Management in Modern Organizations

The ISPMA-Compliant Study Guide and Handbook

Growing Software

Balancing Sustainability and Speed

Software Product Management

This is a comprehensive guide to Scrum for all (team members, managers, and executives). If you want to use Scrum to develop innovative products and services that delight your customers, this is the complete, single-source reference you've been searching for. This book provides a common understanding of Scrum, a shared vocabulary that can be used in applying it, and practical knowledge for deriving maximum value from it.

This book describes pragmatic instruments and methods that enable business experts and software engineers to develop a common understanding of the software to be created, to determine their key requirements, and to manage the project in a way that fosters trust, encourages innovation and distributes risk fairly between clients and contractors. After an introduction to the fundamentals of agile software development in Part I, Part II describes the Interaction Room, an actual room where digitalization and mobilization strategies are developed, where technology potentials are evaluated, where software projects are planned and managed, and where business and technical stakeholders can communicate face to face, visualize complex relationships intuitively, and highlight value, effort and risk drivers that are keys to the project's success. After addressing these constructive aspects, the book focuses on the commercial aspects of software development: The adVANTAGE contract model described in Part III ensures that the insight-driven innovation process of software development does not just function, but is allowed to flourish in a trusted client-contractor relationship. Even though software contracting and construction may be grounded in two different academic disciplines, they are inseparable in practice, and how they interact is illustrated in the case study of developing a private health insurance benefit system in Part IV. Ultimately though, the success of every software project depends on the skills of the stakeholders. Part V therefore describes the qualification profile that software engineers and domain experts have to satisfy today. This book is aimed at CIOs, project managers and software engineers in industrial software development practice who want to learn how to effectively

deal with the inevitable uncertainty of complex projects, who want to achieve higher levels of understanding and cooperation in their relationships with clients and contractors, and who want to run lower-risk software projects despite their inherent uncertainties.

"This remarkable book combines practical advice, ready-to-use techniques, and a deep understanding of why this is the right way to develop software. I have seen software teams transformed by the ideas in this book." --Mike Cohn, author of Agile Estimating and Planning "As a lean practitioner myself, I have loved and used their first book for years. When this second book came out, I was delighted that it was even better. If you are interested in how lean principles can be useful for software development organizations, this is the book you are looking for. The Poppendiecks offer a beautiful blend of history, theory, and practice." --Alan Shalloway, coauthor of Design Patterns Explained "I've enjoyed reading the book very much. I feel it might even be better than the first lean book by Tom and Mary, while that one was already exceptionally good! Mary especially has a lot of knowledge related to lean techniques in product development and manufacturing. It's rare that these techniques are actually translated to software. This is something no other book does well (except their first book)." --Bas Vodde "The new book by Mary and Tom Poppendieck provides a well-written and comprehensive introduction to lean principles and selected practices for software managers and engineers. It illustrates the application of the values and practices with well-suited success stories. I enjoyed reading it." --Roman Pichler "In Implementing Lean Software Development, the Poppendiecks explore more deeply the themes they introduced in Lean Software Development. They begin with a compelling history of lean thinking, then move to key areas such as value, waste, and people. Each chapter includes exercises to help you apply key points. If you want a better understanding of how lean ideas can work with software, this book is for you." --Bill Wake, independent consultant In 2003, Mary and Tom Poppendieck's Lean Software Development introduced breakthrough development techniques that leverage Lean principles to deliver unprecedented agility and value. Now their widely anticipated sequel and companion guide shows exactly how to implement Lean software development, hands-on. This new book draws on the Poppendiecks' unparalleled experience helping development organizations optimize the entire software value stream. You'll discover the right questions to ask, the key issues to focus on, and techniques proven to work. The authors present case studies from leading-edge software organizations, and offer practical exercises for jumpstarting your own Lean initiatives. Managing to extend, nourish, and leverage agile practices Building true development teams, not just groups Driving quality through rapid feedback and detailed discipline Making decisions Just-in-Time, but no later Delivering fast: How PatientKeeper delivers 45 rock-solid releases per year Making tradeoffs that really satisfy customers Implementing Lean Software Development is indispensable to anyone who wants more effective development processes--managers, project leaders, senior developers, and architects in enterprise IT and software companies alike.

Summarizes the Agile and Scrum software development method, which allows

creation of software in just 30 days.

22nd International Conference, ICEIS 2020, Virtual Event, May 5–7, 2020, Revised Selected Papers

Lean Requirements Practices for Teams, Programs, and the Enterprise

Fundamentals, Trends and Best Practices

Implementing Lean Software Development

Tamed Agility

Software by Numbers

On the Move to Meaningful Internet Systems 2006: OTM 2006 Workshops

This book constitutes the refereed proceedings of the 20th International Working Conference on Requirements Engineering: Foundation for Software Quality, REFSQ 2014, held in Essen, Germany, in April 2014. The 23 papers presented were carefully reviewed and selected from 89 submissions. The REFSQ conference is organised as a three-day symposium with two days devoted to scientific papers presentation with a one-day industry track in-between. Both the industry and scientific presentations concern a variety of topics, which shows the liveliness of the requirements engineering domain. These topics are for instance: scalability in RE, communication issues, compliance with law and regulations, RE for self adaptive systems, requirements traceability, new sources of requirements, domain specific RE, Natural Language issues and of course games. 'Games for RE and RE for Games' was the special topic of REFSQ 2014. This is materialized by a plenary session at the conference, and by a keynote given by Catherine Rolland, a serious games expert and project manager at KTM Advance, a French company specialized in serious games.

The world is changing faster than ever. Are you ready? Are you confused by the plethora of 'Agile' terminology flying around at the moment? And wondering about Agile Project Management? Is it even possible? Do you feel there must be a simpler way to cope with this everchanging world? Professionally and personally? There is! The Agile Project Manager makes achieving your desired outcome a reality by breaking down the key principles and behaviours of Agile Project Management, allowing you to take concepts previously reserved for software delivery and easily apply them to whatever you have going on at the moment, whether it is a large professional initiative or a personal project. Agile is about simplicity. And The Agile Project Manager will show you how simple getting great results can be. Agile Project Management combined with the right mindset will help you on your way.

This book contains a collection of thoroughly refereed papers presented at the 5th International Conference on Evaluation of Novel Approaches to Software Engineering, ENASE 2010, held in Athens, Greece, in July 2010. The 19 revised and extended full papers were carefully selected from 70 submissions. They cover a wide range of topics, such as quality and metrics; service and Web engineering; process engineering; patterns, reuse and open source; process improvement; aspect-oriented engineering; and requirements engineering.

Pragmatic Software Testing

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**Managing the Unmanageable
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