201 Principles Of Software Development

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MORROW BURNS

Just Enough Requirements Management

Springer Science & Business Media
This book contains the refereed proceedings of the 13th International Conference on Agile Software Development, XP 2012, held in Malmö, Sweden, in

May 2012. In the last decade, we have seen agile and lean software development strongly influence the way software is developed. Agile and lean software development has moved from being a way of working for a number of pioneers to becoming, more or less, the expected way of developing software in industry. The topics covered by the selected full papers include general aspects of agility, agile teams, studies related to the release and maintenance of software, and research on specific practices in agile and lean software development. They are complemente d by four short papers capturing additional aspects of agile and lean projects.

Software Developmen t, Design and Coding

Addison-Wesley

This book is designed for professionals and students in software engineering or information technology who are interested in understanding the dynamics of software development in order to assess and optimize their own process strategies. It explains how simulation of interrelated technical and social factors can provide a means for organizations to vastly improve their processes. It is structured for readers to approach the subject from different perspectives,

and includes descriptive summaries of the best research and applications. *Software Engineering* IEEE Computer Society Software -- Software Engineering. **Software Requirements** Artech House "This is an incredibly wise and useful book. The authors have considerable real-world experience in delivering quality systems that matter, and their expertise shines through in these pages. Here you will learn what technical debt is, what is it not, how to manage it, and how to pay it down in responsible ways. This is a book I wish I had when I was just beginning my career. The authors present a myriad of case studies, born from years of experience, and offer a multitude of actionable insights for how to apply it to your project." –Grady Booch, IBM Fellow Master Best Practices for Managing Technical Debt to Promote Software Quality and Productivity As software systems mature, earlier design or code decisions made in the context of budget or schedule constraints increasingly impede evolution and innovation. This phenomenon is called technical debt, and practical solutions

exist. In Managing Technical Debt, three leading experts introduce integrated, empirically developed principles and practices that any software professional can use to gain control of technical debt in any software system. Using real-life examples, the authors explain the forms of technical debt that afflict software-intensive systems, their root causes, and their impacts. They introduce proven approaches for identifying and assessing specific sources of technical debt, limiting new debt, and “paying off” debt over time. They describe how to establish managing technical debt as a core software engineering practice in your organization. Discover how technical debt damages manageability, quality, productivity, and morale–and what you can do about it Clarify root causes of debt, including the linked roles of business goals, source code, architecture, testing, and infrastructure Identify technical debt items, and analyze their costs so you can prioritize action Choose the right solution for each technical debt item: eliminate, reduce, or mitigate Integrate software engineering practices that minimize new

debt Managing Technical Debt will be a valuable resource for every software professional who wants to accelerate innovation in existing systems, or build new systems that will be easier to maintain and evolve.

Essentials of Software Engineering

Apress

Software maintenance work is often considered a dauntingly rigid activity – this book proves the opposite: it demands high levels of creativity and thinking outside the box. Highlighting the creative aspects of software maintenance and combining analytical and systems thinking in a holistic manner, the book motivates readers not to blithely follow the beaten tracks of “technical rationality”. It delivers the content in a pragmatic fashion using case studies which are woven into long running story lines. The book is organized in four parts, which can be read in any order, except for the first chapter, which introduces software maintenance and evolution and presents a number of case studies of software failures. The “Introduction to Key Concepts” briefly introduces the major elements of software maintenance by highlighting various core concepts that

are vital in order to see the forest for the trees. Each such concept is illustrated with a worked example. Next, the “Forward Engineering” part debunks the myth that being fast and successful during initial development is all that matters. To this end, two categories of forward engineering are considered: an inept initial project with a multitude of hard evolutionary phases and an effective initial project with multiple straightforward future increments. “Reengineering and Reverse Engineering” shows the difficulties of dealing with a typical legacy system, and tackles tasks such as retrofitting tests, documenting a system, restructuring a system to make it amenable for further improvements, etc. Lastly, the “DevOps” section focuses on the importance and benefits of crossing the development versus operation chasm and demonstrates how the DevOps paradigm can turn a loosely coupled design into a loosely deployable solution. The book is a valuable resource for readers familiar with the Java programming language, and with a basic understanding and/or experience of software construction and testing. Packed with examples for

every elaborated concept, it offers complementary material for existing courses and is useful for students and professionals alike.

With Patterns, Debugging, Unit Testing, and Refactoring Springer Science & Business Media

Reed's guide includes detailed coverage of architecting VB enterprise applications and features working examples and step-by-step instructions for planning and development of an order entry system, detailing do's and don't's for analysis, design and construction. CD-ROM contains several templates for applying UML, as well as complete Rational Rose models for the sample applications.

Managing Software Requirements IGI Global

"The basic concepts and theories of software engineering have stabilized considerably from the early days of thirty to forty years ago. Nevertheless, the technology and tools continue to evolve, expand and improve every four to five years. In this fifth edition, we will cover some of these newly established improvements in technology and tools but reduce some areas, such as process assessment models, that is becoming less relevant

today. We will still maintain many of the historically important concepts that formed the foundation to this field, such as the traditional process models. Our goal is to continue to keep the content of this book to a concise amount that can be taught in a 16-week semester introductory course"-- *Establish - Extract - Evaluate - Execute* Waveland Press This is the digital version of the printed book (Copyright © 1996). Written in a remarkably clear style, Creating a Software Engineering Culture presents a comprehensive approach to improving the quality and effectiveness of the software development process. In twenty chapters spread over six parts, Wiegers promotes the tactical changes required to support process improvement and high-quality software development. Throughout the text, Wiegers identifies scores of culture builders and culture killers, and he offers a wealth of references to resources for the software engineer, including seminars, conferences, publications, videos, and on-line information. With case studies on process improvement and software

metrics programs and an entire part on action planning (called “What to Do on Monday”), this practical book guides the reader in applying the concepts to real life. Topics include software culture concepts, team behaviors, the five dimensions of a software project, recognizing achievements, optimizing customer involvement, the project champion model, tools for sharing the vision, requirements traceability matrices, the capability maturity model, action planning, testing, inspections, metrics-based project estimation, the cost of quality, and much more! Principles from Part 1 Never let your boss or your customer talk you into doing a bad job. People need to feel the work they do is appreciated. Ongoing education is every team member’s responsibility. Customer involvement is the most critical factor in software quality. Your greatest challenge is sharing the vision of the final product with the customer. Continual improvement of your software development process is both possible and essential. Written software development procedures can help build a shared culture of best practices. Quality is the top priority;

long-term productivity is a natural consequence of high quality. Strive to have a peer, rather than a customer, find a defect. A key to software quality is to iterate many times on all development steps except coding: Do this once. Managing bug reports and change requests is essential to controlling quality and maintenance. If you measure what you do, you can learn to do it better. You can’t change everything at once. Identify those changes that will yield the greatest benefits, and begin to implement them next Monday. Do what makes sense; don’t resort to dogma. Minimalism Springer Software Development and Professional Practice reveals how to design and code great software. What factors do you take into account? What makes a good design? What methods and processes are out there for designing software? Is designing small programs different than designing large ones? How can you tell a good design from a bad one? You'll learn the principles of good software design, and how to turn those principles back into great code. Software Development and Professional Practice is also about

code construction—how to write great programs and make them work. What, you say? You've already written eight gazillion programs! Of course I know how to write code! Well, in this book you'll re-examine what you already do, and you'll investigate ways to improve. Using the Java language, you'll look deeply into coding standards, debugging, unit testing, modularity, and other characteristics of good programs. You'll also talk about reading code. How do you read code? What makes a program readable? Can good, readable code replace documentation? How much documentation do you really need? This book introduces you to software engineering—the application of engineering principles to the development of software. What are these engineering principles? First, all engineering efforts follow a defined process. So, you'll be spending a bit of time talking about how you run a software development project and the different phases of a project. Secondly, all engineering work has a basis in the application of science and mathematics to real-world problems. And so does software development! You'll therefore take the time to

examine how to design and implement programs that solve specific problems. Finally, this book is also about human-computer interaction and user interface design issues. A poor user interface can ruin any desire to actually use a program; in this book, you'll figure out why and how to avoid those errors. Software Development and Professional Practice covers many of the topics described for the ACM Computing Curricula 2001 course C292c Software Development and Professional Practice. It is designed to be both a textbook and a manual for the working professional. *Modern Approaches, Second Edition* Roberto Minelli Intended for a one-semester, introductory course, Essentials of Software Engineering is a user-friendly, comprehensiv e introduction to the core fundamental topics and methodologies of software development. The authors, building off their 25 years of experience, present the complete life cycle of a software system, from inception to release and through support. The text is broken into six distinct sections, covering programming concepts, system analysis and design, principles of software

engineering, development and support processes, methodologies, and product management. Presenting topics emphasized by the IEEE Computer Society sponsored Software Engineering Body of Knowledge (SWEBOK) and by the Software Engineering 2004 Curriculum Guidelines for Undergraduate Degree Programs in Software Engineering, Essentials of Software Engineering is the ideal text for students entering the world of software development.

Quality Assurance of Agent-Based and Self-Managed Systems

Artech House

Software systems now invade every area of daily living. Yet, we still struggle to build systems we can really rely on. If we want to work with software systems at any level, we need to get to grips with the way software evolves. This book will equip the reader with a sound understanding of maintenance and how it affects all levels of the software evolution process.

Software Analytics for Mobile Applications

Pearson Education

Today's software engineer must be able to employ more than one kind of software process, ranging from agile methodologies to the waterfall

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

environments, and deliver the proper products.
A Practitioner's Approach CRC Press
The challenges in implementing intelligent and autonomous software systems remain the development of self-adapting systems, self-healing applications, corporate global creation, and collaborated robotic teams. With software agent technology widely recognized as a key approach in implementing such global infrastructure, the importance of the role of quality assurance of agent-based systems and system development is growing daily. Based on the authors' more than fifteen years of experience in software agent technology, Quality of Agent-Based and Self-Managed Systems presents the basics principles and structures of agent technology. It covers the main quality issues of software system development and provides examples of agent measurement and evaluation. The authors focus on software agent systems and multi-agent systems (MAS) and discuss the determination of quality properties. They also explain different techniques and approaches to

evaluate the development of MAS. The final chapter summarizes quality assurance approaches for agent-based systems and discusses some open problems and future directions. Although often complex and difficult to manage, the applications for software agent systems in essential life systems increase every day. Since the quality of the agent-based self-managing systems is a central point of software risks, analyzing, evaluating, and improving the quality measurement situation will always be a concern when developing these systems. With more than sixty illustrations and twenty tables, this book builds a foundation in quality and quality control for agent-based technology. *Software Process Dynamics* Newnes "This book discusses the forensics of software copyright infringement, highlighting theoretical, functional, and procedural matters in the investigation of copyright infringement of software products, as well as the development of forensic technologies to detect and eliminate software piracy"-- **Extreme Programming Installed** IGI Global Traditional software development methods struggle to keep pace

with the accelerated pace and rapid change of Internet-era development. Several "agile methodologies " have been developed in response -- and these approaches to software development are showing exceptional promise. In this book, Jim Highsmith covers them all -- showing what they have in common, where they differ, and how to choose and customize the best agile approach for your needs.KEY TOPICS:Highsmith begins by introducing the values and principles shared by virtually all agile software development methods. He presents detailed case studies from organizations that have used them, as well as interviews with each method's principal authors or leading practitioners. Next, he takes a closer look at the key features and techniques associated with each major Agile approach: Extreme Programming (XP), Crystal Methods, Scrum, Dynamic Systems Development Method (DSDM), Lean Development, Adaptive Software Development (ASD), and Feature-Driven Development (FDD). In Part III, Highsmith offers practical advice on customizing the optimal agile discipline for your own organization.MARKET:For all software

developers, project managers, and other IT professionals seeking more flexible, effective approaches to developing software.

International Conferences IWSM 2009 and Mensura 2009 Amsterdam, The Netherlands, November 4-6, 2009. Proceedings

Springer

The first book to cover Agile Modeling, a new modeling techniquecreated specifically for XP projects eXtreme Programming (XP) hascreated a buzz in the software development community-much likeDesign Patterns did several years ago. Although XP presents amethodology for faster software development, many developers findthat XP does not allow for modeling time, which is critical toensure that a project meets its proposed requirements. They havealso found that standard modeling techniques that use the UnifiedModeling Language (UML) often do not work with this methodology. Inthis innovative book, Software Development columnist Scott Amblerpresents Agile Modeling (AM)-a technique that he created formodeling XP projects using pieces of the UML and Rational's UnifiedProcess (RUP). Ambler clearly explains AM, and shows

readers how toincorporate AM, UML, and RUP into their development projects withthe help of numerous case studies integrated throughout the book. AM was created by the author for modeling XP projects-anelement lacking in the original XP design The XP community and its creator have embraced AM, which shouldgive this book strong market acceptance Companion Web site at www.agilemodeling.com features updates,links to XP and AM resources, and ongoing case studies about agilemodeling.

Where Software Development Meets Marketing

John Wiley & Sons

Extreme Programming Installed explains the core principles of Extreme Programming and details each step in the XP development cycle. This book conveys the essence of the XP approach--techniques for implementation, obstacles likely to be encountered, and experience-based advice for successful execution. Addison-Wesley Professional

Betrayal! Corruption! Software engineering? Industry experts Johann Rost and Robert L. Glass explore the seamy underbelly of software engineering in this timely report on and analysis of the prevalance of subversion, lying, hacking, and espionage

on every level of software project management. Based on the authors' original research and augmented by frank discussion and insights from other well-respected figures, The Dark Side of Software Engineering goes where other management studies fear to tread -- a corporate environment where schedules are fabricated, trust is betrayed, millions of dollars are lost, and there is a serious need for the kind of corrective action that this book ultimately proposes.

Agile Processes in Software Engineering and Extreme Programming

Springer Science & Business Media

"Designing a large software system is an extremely complicated undertaking that requires juggling differing perspectives and differing goals, and evaluating differing options. Applied Software Architecture is the best book yet that gives guidance as to how to sort out and organize the conflicting pressures and produce a successful design." -- Len Bass, author of Software Architecture in Practice.

Quality software architecture design has always been important, but in today's fast-paced, rapidly changing, and complex development environment,

it is essential. A solid, well-thought-out design helps to manage complexity, to resolve trade-offs among conflicting requirements, and, in general, to bring quality software to market in a more timely fashion. Applied Software Architecture provides practical guidelines and techniques for producing quality software designs. It gives an overview of software architecture basics and a detailed guide to architecture design tasks, focusing on four fundamental views of architecture--conceptual, module, execution, and code. Through four real-life case studies, this book reveals the insights and best practices of the most skilled software architects in designing software architecture. These case studies, written with the masters who created them, demonstrate how the book's concepts and techniques are embodied in state-of-the-art architecture design. You will learn how to: create designs flexible enough to incorporate tomorrow's technology; use architecture as the basis for meeting performance, modifiability, reliability, and safety requirements; determine priorities among conflicting requirements

and arrive at a successful solution; and use software architecture to help integrate system components. Anyone involved in software architecture will find this book a valuable compendium of best practices and an insightful look at the critical role of architecture in software development. 0201325713B 07092001

Facts and Fallacies of Software Engineering Addison-Wesley Professional The notion of Minimalism is proposed as a theoretical tool supporting a more differentiated understanding of reduction and thus forms a standpoint that allows definition of aspects of simplicity. Possible uses of the notion of minimalism in the field of human–computer interaction design are examined both from a theoretical and empirical viewpoint, giving a range of results. Minimalism defines a radical and potentially useful perspective for design analysis. The empirical examples show that it has also proven to be a useful tool for generating and modifying concrete design techniques. Divided into four parts this book traces the development of minimalism, defines the four types of minimalism in interaction design, looks at how to apply it and

finishes with some conclusions.