Online Library Real Time Agility

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Real-time Strategy and Business Intelligence "O'Reilly Media, Inc."
Agile Systems Engineering presents a vision of systems engineering where precise specification of requirements, structure, and behavior meet larger concerns as such as safety, security, reliability, and performance in an agile engineering context. World-renown author and speaker Dr. Bruce Powel Douglass incorporates agile methods and model-based systems engineering (MBSE) to define the properties of entire systems while avoiding errors that can occur when using traditional textual specifications. Dr. Douglass covers the lifecycle of systems development, including requirements, analysis, design, and the handoff to specific engineering disciplines. Throughout, Dr. Douglass couples agile methods with SysML and MBSE to arm system engineers with the conceptual and methodological tools they need to avoid specification defects and improve system quality while simultaneously reducing the effort and cost of systems engineering. Identifies how the concepts and techniques of agile methods can be effectively applied in systems engineering context Shows how to perform model-based functional analysis and tie these analyses back to system requirements and stakeholder needs, and forward to system architecture and interface definition Provides a means by which the quality and correctness of systems engineering data can be assured (before the entire system is built!) Explains agile system architectural specification and allocation of functionality to system components Details how to transition engineering specification data to downstream engineers with no loss of fidelity Includes detailed examples from across industries taken through their stages, including the "Waldo" industrial exoskeleton as a complex system

Design Patterns for Embedded Systems in C Pearson Education
The two-volume set LNAI 6591 and LNCS 6592 constitutes the refereed proceedings of the Third International Conference on Intelligent Information and Database Systems, ACIIDS 2011, held in Daegu, Korea, in April 2011. The 110 revised papers presented together with 2 keynote speeches were carefully reviewed and selected from 310 submissions. The papers are thematically divided into two volumes; they cover the following topics: intelligent database systems, data warehouses and data mining, natural language processing and computational linguistics, semantic Web, social networks and recommendation systems, technologies for intelligent information systems, collaborative systems and applications, e-business and e-commerce systems, e-learning systems, information modeling and requirements engineering, information retrieval systems, intelligent agents and multi-agent systems, intelligent information systems, intelligent internet systems, intelligent optimization techniques, object-relational DBMS, ontologies and knowledge sharing, semi-structured and XML database systems, unified modeling language and unified processes, Web services and semantic Web, computer networks and communication systems.

Enterprise Agility Elsevier
Sustaining a competitive edge in today's business world requires innovative approaches to product, service, and management systems design and performance. Advances in computing technologies have presented managers with additional challenges as well as further opportunities to enhance

their business models. Software Engineering for Enterprise System Agility: Emerging Research and Opportunities is a collection of innovative research that identifies the critical technological and management factors in ensuring the agility of business systems and investigates process improvement and optimization through software development. Featuring coverage on a broad range of topics such as business architecture, cloud computing, and agility patterns, this publication is ideally designed for business managers, business professionals, software developers, academicians, researchers, and upper-level students interested in current research on strategies for improving the flexibility and agility of businesses and their systems.

<u>Software Engineering for Enterprise System Agility: Emerging Research and Opportunities</u> Morgan Kaufmann

As contrary as it sounds, "planning" -- as we traditionally understand the term--can be the worst thing a company can do. Consider that volatile weather events disrupt trusted supply chains, markets, and promised delivery schedules. Ever-shifting geo-political tensions, as well as internal political upheaval within U.S. and global governments, derail long-planned new ventures. Technology failures block opportunities. Competitors suddenly change their product or release date; your team cannot meet the pace of innovations in your market niche, leaving you sidelined. There are myriad ways in the current business environment for a company's well-considered business plans to go awry. Most business schools continue to prepare managers to be effective in stable and predictable environments, conditions that, if they ever existed at all, are long gone. The Agility Shift shows business leaders exactly how to make the radical mindset and strategy shift necessary to create an agile, entrepreneurial organization that can innovate and thrive in complex, ever-changing contexts. As author Pamela Meyer explains, there is much more involved than a reconfiguration of the org chart and job descriptions. It requires relinquishing the illusion of control at the very foundation of most management training and business practice. Despite most leaders' approaches, "Agility is not simply accelerated planning." Unlike many agility books on the market, The Agility Shift provides specific, actionable strategies and tactics for leaders at all levels of the organization to put into practice immediately to improve agility and achieve results.

<u>Strategic Information System Agility</u> Tom Rath

This practical new book provides much-needed, practical, hands-on experience capturing analysis and design in UML. It holds the hands of engineers making the difficult leap from developing in C to the higher-level and more robust Unified Modeling Language, thereby supporting professional development for engineers looking to broaden their skill-sets in order to become more saleable in the job market. It provides a laboratory environment through a series of progressively more complex exercises that act as building blocks, illustrating the various aspects of UML and its application to real-time and embedded systems. With its focus on gaining proficiency, it goes a significant step beyond basic UML overviews, providing both comprehensive methodology and the best level of supporting exercises available on the market. Each exercise has a matching solution which is thoroughly explained step-by-step in the back of the book. The techniques used to solve these problems come from the author's decades of experience designing and constructing real-time systems. After the exercises have been successfully completed, the book will act as a desk reference for engineers, reminding them of how many of the problems they face in their designs can be solved. Tutorial style text with keen focus on in-depth presentation and solution of real-world example problems Highly popular, respected and experienced author

Intelligent Information and Database Systems Springer

"Being a certified bibliophile and a professional geek, I have more shelf space devoted to books on software methods than any reasonable human should possess. Balancing Agility and Discipline has a prominent place in that section of my library, because it has helped me sort through the noise and smoke of the current method wars." --From the Foreword by Grady Booch "This is an outstanding book on an emotionally complicated topic. I applaud the authors for the care with which they have handled the subject." --From the Foreword by Alistair Cockburn "The authors have done a commendable job of identifying five critical factors--personnel, criticality, size, culture, and dynamism--for creating the right balance of flexibility and structure. Their thoughtful analysis will help developers who must sort through the agile-disciplined debate, giving them guidance to create the right mix for their projects." --From the Foreword by Arthur Pyster Agility and discipline: These apparently opposite attributes are, in fact, complementary values in software development. Plan-driven developers must also be agile; nimble developers must also be disciplined. The key to success is finding the right balance between the two, which will vary from project to project according to the circumstances and risks involved. Developers, pulled toward opposite ends by impassioned arguments, ultimately must learn how to give each value its due in their particular situations. Balancing Agility and Discipline sweeps aside the rhetoric, drills down to the operational core concepts, and presents a constructive approach to defining a balanced software development strategy. The authors expose the bureaucracy and stagnation that mark discipline without agility, and liken agility without discipline to unbridled and fruitless enthusiasm. Using a day in the life of two development teams and ground-breaking case studies, they illustrate the differences and similarities between agile and plan-driven methods, and show that the best development strategies have ways to combine both attributes. Their analysis is both objective and grounded, leading finally to clear and practical guidance for all software professionals--showing how to locate the sweet spot on the agility-discipline continuum for any given project. 0321186125B10212003

The Jazz Process John Wiley & Sons

"Companies have been implementing large agile projects for a number of years, but the 'stigma' of 'agile only works for small projects' continues to be a frequent barrier for newcomers and a rallying cry for agile critics. What has been missing from the agile literature is a solid, practical book on the specifics of developing large projects in an agile way. Dean Leffingwell's book Scaling Software Agility fills this gap admirably. It offers a practical guide to large project issues such as architecture, requirements development, multi-level release planning, and team organization. Leffingwell's book is a necessary guide for large projects and large organizations making the transition to agile development." —Jim Highsmith, director, Agile Practice, Cutter Consortium, author of Agile Project Management "There's tension between building software fast and delivering software that lasts, between being ultra-responsive to changes in the market and maintaining a degree of stability. In his latest work, Scaling Software Agility, Dean Leffingwell shows how to achieve a pragmatic balance among these forces. Leffingwell's observations of the problem, his advice on the solution, and his description of the resulting best practices come from experience: he's been there, done that, and has seen what's worked." —Grady Booch, IBM Fellow Agile development practices, while still controversial in some circles, offer undeniable benefits: faster time to market, better responsiveness to changing customer requirements, and higher quality. However, agile practices have been defined and recommended primarily to small teams. In

Scaling Software Agility, Dean Leffingwell describes how agile methods can be applied to enterprise-class development. Part I provides an overview of the most common and effective agile methods. Part II describes seven best practices of agility that natively scale to the enterprise level. Part III describes an additional set of seven organizational capabilities that companies can master to achieve the full benefits of software agility on an enterprise scale. This book is invaluable to software developers, testers and QA personnel, managers and team leads, as well as to executives of software organizations whose objective is to increase the quality and productivity of the software development process but who are faced with all the challenges of developing software on an enterprise scale.

<u>Balancing Agility and Discipline</u> John Wiley & Sons

#1 Wall Street Journal Best Seller USA Today Best Seller Amazon Best Book of the Year TED Talk sensation - over 3 million views! The counterintuitive approach to achieving your true potential, heralded by the Harvard Business Review as a groundbreaking idea of the year. The path to personal and professional fulfillment is rarely straight. Ask anyone who has achieved his or her biggest goals or whose relationships thrive and you'll hear stories of many unexpected detours along the way. What separates those who master these challenges and those who get derailed? The answer is agility—emotional agility. Emotional agility is a revolutionary, science-based approach that allows us to navigate life's twists and turns with self-acceptance, clear-sightedness, and an open mind. Renowned psychologist Susan David developed this concept after studying emotions, happiness, and achievement for more than twenty years. She found that no matter how intelligent or creative people are, or what type of personality they have, it is how they navigate their inner world—their thoughts, feelings, and self-talk—that ultimately determines how successful they will become. The way we respond to these internal experiences drives our actions, careers, relationships, happiness, health—everything that matters in our lives. As humans, we are all prone to common hooks—things like self-doubt, shame, sadness, fear, or anger—that can too easily steer us in the wrong direction. Emotionally agile people are not immune to stresses and setbacks. The key difference is that they know how to adapt, aligning their actions with their values and making small but powerful changes that lead to a lifetime of growth. Emotional agility is not about ignoring difficult emotions and thoughts; it's about holding them loosely, facing them courageously and compassionately, and then moving past them to bring the best of yourself forward. Drawing on her deep research, decades of international consulting, and her own experience overcoming adversity after losing her father at a young age, David shows how anyone can thrive in an uncertain world by becoming more emotionally agile. To guide us, she shares four key concepts that allow us to acknowledge uncomfortable experiences while simultaneously detaching from them, thereby allowing us to embrace our core values and adjust our actions so they can move us where we truly want to go. Written with authority, wit, and empathy, Emotional Agility serves as a road map for real behavioral change—a new way of acting that will help you reach your full potential, whoever you are and whatever you face.

<u>People Over Process</u> IGI Global

Launch effective real-time communications to win in today's always-on world Gone are the days when you could plan out your marketing and public relations programs well in advance and release them on your timetable. "Real time" means news breaks over minutes, not days. It means companies develop (or refine) products or services instantly, based on feedback from customers or events in the marketplace. And it's when businesses see an opportunity and are the first to act on it. In this eye-opening follow-up to The New Rules of Marketing and PR, a BusinessWeek bestseller, David Meerman Scott reveals the proven, practical steps to take your business into the real-time era. Find out how to act and react flexibly as events occur, position your brand in the always-on world of the Web, and avoid embarrassing mistakes and missteps. Real-Time Marketing and PR will also enable you to: Develop a business culture that encourages speed over sloth Read buying signals as people interact with your online information Crowdsource product development, naming, and even marketing materials such as online videos Engage reporters to shape stories as they are being written Command premium prices by delivering products at speed Deploy technology to listen in on millions of online discussions and instantly engage with customers and buyers Scale and media buying power are no longer a decisive advantage. What counts today is speed and agility. While your competitors scramble to adjust, you can seize the initiative, open new channels, and grow your brand. Master Real-Time Marketing and PR today and become the first to act, the first to respond, and the first to win!

<u>Real World Agility</u> IGI Global

This is the eBook version of the printed book. A Practical Framework for Gaining Agility's Benefits Without the Risk Agile methodologies, such as XP, Scrum, Crystal, and Lean Software Development enable development organizations to deliver higher-quality software far more rapidly. However, for the "non-agile" development organization, transitioning to agility is an enormous leap, requiring radically new skills and presenting profound risks. In this book, leading agile practitioner Carol A. Wellington introduces the first systematic, three-phase process for moving smoothly to agility. Just as developers have learned to refactor code to improve performance and maintainability, Wellington shows how to refactor processes to improve agility. Using Wellington's framework, you can gradually move toward agility, while maintaining full control and avoiding disruption. You'll lay a solid foundation for agility, and then refactor more and more of your processes, systematically introducing agility wherever it delivers compelling value. You can retain current processes that work, and implement the best agile methods for your organization, regardless of their source. This practical approach can help you build organizational confidence in agility, drive measurable benefits, and minimize risk every step of the way. Coverage includes · Phase 1: Time-boxed iterations that deliver customer-visible functionality–not just components · Phase 2: A lightweight measurement process to detect problems and evaluate changes withoutwasting too much time gathering and analyzing data · Phase 3: Identifying your worst process "smells," uncovering their true underlying causes, and fixing them · Incrementally bringing agility to planning, estimation, analysis, design, development, and process management · Eliminating tasks and processes that don't add value · Overcoming pitfalls and hidden interconnections that complicate your agile transition · Learning to lead the transition to agility, gaining buy-in from team members, customers, and executives Whatever your role, organization, or current methodology, Refactoring to Agility can help you reap powerful value from agile methods–without the risks. Dr. Carol A. Wellington is a professor of computer science and the department chair at Shippensburg University of Pennsylvania. Prior to this position, she was a leader in large software development organizations, building operating systems and real-time embedded applications. Dr. Wellington currently uses this combination of academic and industrial experience as a consultant to help companies question their assumptions about development

processes to improve their agility and product quality.

Business Agility IGI Global

When software development teams move to agile methods, experienced project managers often struggle—doubtful about the new approach and uncertain about their new roles and responsibilities. In this book, two long-time certified Project Management Professionals (PMPRs) and Scrum trainers have built a bridge to this dynamic new paradigm. They show experienced project managers how to successfully transition to agile by refocusing on facilitation and collaboration, not "command and control." The authors begin by explaining how agile works: how it differs from traditional "plan-driven" methodologies, the benefits it promises, and the real-world results it delivers. Next, they systematically map the Project Management Institute's classic, methodology-independent techniques and terminology to agile practices. They cover both process and project lifecycles and carefully address vital issues ranging from scope and time to cost management and stakeholder communication. Finally, drawing on their own extensive personal experience, they put a human face on your personal transition to agile--covering the emotional challenges, personal values, and key leadership traits you'll need to succeed. Coverage includes Relating the PMBOKR Guide ideals to agile practices: similarities, overlaps, and differences Understanding the role and value of agile techniques such as iteration/release planning and retrospectives Using agile techniques to systematically and continually reduce risk Implementing quality assurance (QA) where it belongs: in analysis, design, defect prevention, and continuous improvement Learning to trust your teams and listen for their discoveries Procuring, purchasing, and contracting for software in agile, collaborative environments Avoiding the common mistakes software teams make in transitioning to agile Coordinating with project management offices and non-agile teams "Selling" agile within your teams and throughout your organization For every project manager who wants to become more agile. Part I An Agile Overview 7 Chapter 1 What is "Agile"? 9 Chapter 2 Mapping from the PMBOKR Guide to Agile 25 Chapter 3 The Agile Project Lifecycle in Detail 37 Part II The Bridge: Relating PMBOKR Guide Practices to Agile Practices 49 Chapter 4 Integration Management 51 Chapter 5 Scope Management 67 Chapter 6 Time Management 83 Chapter 7 Cost Management 111 Chapter 8 Quality Management 129 Chapter 9 Human Resources Management 143 Chapter 10 Communications Management 159 Chapter 11 Risk Management 177 Chapter 12 Procurement Management 197 Part III Crossing the Bridge to Agile 215 Chapter 13 How Will My Responsibilities Change? 217 Chapter 14 How Will I Work with Other Teams Who Aren't Agile? 233 Chapter 15 How Can a Project Management Office Support Agile? 249 Chapter 16 Selling the Benefits of Agile 265 Chapter 17 Common Mistakes 285 Appendix A Agile Methodologies 295 Appendix B Agile Artifacts 301 Glossary 321 Bibliography 327 Index 333

Agility Newnes

This publication supports reforms towards greater strategic agility in the public sector through the use of budgeting policy levers, human resource management strategies and ICTs.

Real-Time Agility Elsevier

"This book communicates the various challenges and great opportunities that information systems research produces"--Provided by publisher.

Handbook of Research on Web 2.0, 3.0, and X.0: Technologies, Business, and Social Applications Routledge

"This book provides a comprehensive reference source on next generation Web technologies and their applications"--Provided by publisher.

Agile Model-Based Systems Engineering Cookbook Emerald Group Publishing

"This book addresses the development of reconfigurable embedded control systems and describes various problems in this important research area, which include static and dynamic (manual or automatic) reconfigurations, multi-agent architectures, modeling and verification, component-based approaches, architecture description languages, distributed reconfigurable architectures, real-time and low power scheduling, execution models, and the implementation of such systems"--

Agile 2 CRC Press

Proven Solutions for the Most Widespread and Frustrating Agile Challenges "This book gives you the answers that a wise mentor would have given you, if you had one. Daniel Gullo shares his insights on the principal questions that everyone coming to the world of Agile will inevitably encounter. " –From the foreword by Stephen Denning, author of The Leader's Guide to Radical Management Agile is becoming ubiquitous, but successful Agile implementation remains difficult. Organizations keep getting stuck on the same issues. However, with Real World Agility: Practical Guidance for Agile Practitioners, that need not happen to you. World-renowned Agile coach and consultant Daniel James Gullo identifies and addresses nearly sixty widespread challenges faced by anyone trying to derive value from Agile. Drawing on his vast experience guiding Agile teams to success, Gullo helps you accurately diagnose your problems, describes each solution with maximum clarity, and concisely presents the details you need in order to act effectively. This accessible guide is for every project participant and stakeholder: from ScrumMasters and team leads to developers, project managers, product owners, and customers. Gullo addresses methods ranging from Scrum to Kanban, guides you on scaling Agile, and even helps you apply it beyond software development. Coverage includes Making sense of Agile's many "flavors" Overcoming key hurdles in transitioning from waterfall Addressing cultural obstacles Meshing Agile teams with your management hierarchy Engaging executives with Agile practices and values Clarifying relationships among ScrumMasters, product owners, and project managers Smoothly handling key tasks, such as organizing backlogs and defining sprints Taking advantage of continuous integration and test-driven development Bringing Agile to distributed teams and large product portfolios Throughout, vignettes show exactly how Agile problems manifest in the real world–and how Gullo's solutions can help you overcome them. As you learn from others' experiences, you'll quickly begin to see a clear path to success.

Emerging Topics and Technologies in Information Systems Addison-Wesley Professional

The relentless pursuit of industrial efficiency no longer yields the profits it once did because it requires a level of business predictability that no longer exists. Instead, the Internet and global video and telecom systems provide a massive and continuous flow of data that causes the whole world to behave like a giant stock market, with all the volatility and uncertainty that goes along with such markets. Responsiveness now trumps efficiency. By being responsive to the evolving needs and desires of specific groups of customers, companies can wrap their products and services in a tailored blanket of value-added services to consistently earn an additional four percent or more gross margin than they would otherwise earn for the product or service alone. This customer and market specialization is the most promising and the most sustainable source of profits in our fluid, real-time economy. Part of the Microsoft Executive Leadership Series, Business Agility discusses the three fundamental process loops that drive an agile enterprise and how they work together to deliver the responsiveness that generates profits in a high-change economy. Providing strategies for innovative and pragmatic use of people, process, and technology to drive operations in an agile enterprise, this book reveals the principles of the agile enterprise, backed by real-world case studies from the author's own experience. Michael Hugos is a speaker, writer, and practitioner in IT and business agility, and agile system development methods. He writes a column for Computerworld and a blog titled "Doing Business in Real Time" for CIO magazine.

Emotional Agility IGI Global

Agile is broken. Most Agile transformations struggle. According to an Allied Market Research study, "63% of respondents stated the failure of agile implementation in their organizations." The problems with Agile start at the top of most organizations with executive leadership not getting what agile is or even knowing the difference between success and failure in agile. Agile transformation is a journey, and most of that journey consists of people learning and trying new approaches in their own work. An agile organization can make use of coaches and training to improve their chances of success. But even then, failure remains because many Agile ideas are oversimplifications or interpreted in an extreme way, and many elements essential for success are missing. Coupled with other ideas that have been dogmatically forced on teams, such as "agile team rooms", and "an overall inertia and resistance to change in the Agile community," the Agile movement is ripe for change since its birth twenty years ago. "Agile 2" represents the work of fifteen experienced Agile experts, distilled into Agile 2: The Next Iteration of Agile by seven members of the team. Agile 2 values these pairs of attributes when properly balanced: thoughtfulness and prescription; outcomes and outputs, individuals and teams; business and technical understanding; individual empowerment and good leadership; adaptability and planning. With a new set of Agile principles to take Agile forward over the next 20 years, Agile 2 is applicable beyond software and hardware to all parts of an agile organization including "Agile HR", "Agile Finance", and so on. Like the original "Agile", "Agile 2", is just a set of ideas - powerful ideas. To undertake any endeavor, a single set of ideas is not enough. But a single set of ideas can be a powerful guide.

Instructional Agility Springer

Globalization, rapid technology churn, and massive economic shifts have made it more difficult than ever to deliver high-value enterprise software. In Enterprise Software Delivery, IBM Distinguished Engineer Alan W. Brown guides decision-makers in understanding these new challenges, choosing today's best solutions, and successfully anticipating future trends. Alan presents detailed, actionable techniques for building software supply chains that improve agility and innovation while responding to growing cost pressure. Using real-world case studies, he introduces the modern global software factory, demonstrating how to integrate and leverage global outsourced teams, collaborative application lifecycle management, and cloud-based virtual infrastructures. Drawing on his extensive experience leading IBM Rational software strategy, and consulting with IBM enterprise customers, Alan illuminates everything from software R&D to metrics. Coverage includes Understanding recent dramatic changes in enterprise software delivery requirements and practices Overcoming false assumptions, outdated data and delivery models, and inexperience with strategy, innovation, education, or research Incorporating integrators and partners in centers of excellence that specialize in delivering business value Establishing team-based practices that encourage agility, scalability, and quality Building adaptive software factories that integrate real-time feedback and respond rapidly to change Using virtualized collaborative infrastructure to connect worldwide teams for developing software, assembling solutions, and delivering results Transcending barriers related to geography, organization, skills, and culture If you're an enterprise software leader, strategist, or practitioner, this book can help you improve every facet of performance you care about, including agility, quality, predictability, innovation, and value.

Agile Systems Engineering Addison-Wesley Professional

Since the 1980s, mobile communication has undergone major transitions from 1G to 4G, at a rate of roughly one generation per decade. And the next upgrade is set to come soon, with 5G heralding a new era of large-bandwidth Internet, and a multi-connection, low-latency Internet of Everything. 5G technology will be the standard for next-generation mobile Internet, and it will not only enhance the individual user's experience, but also provide technical support for artificial-intelligence-based applications, such as smart manufacturing, smart healthcare, smart government, smart cities and driverless cars. As a result, 5G is regarded as the "infrastructure" of the industrial Internet and artificial intelligence and both China and the United States are striving to become the 5G leader and spearhead this new generation of international mobile communication standards. Though trade tensions between China and the United States continue to escalate, with products ranging from soybeans to mobile phones and automobiles being affected, 5G technology may be the true cause of trade wars between the world's top two economies. In short, 5G will change not only society, but also international trade patterns. This book describes various 5G scenarios, changes and values; explains the standards, technologies and development directions behind 5G; and explores new models, new formats and new trends in 5G-based artificial intelligence.