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59OI5D - KENDAL PONCE

This two-volume set (CCIS 134 and CCIS 135) constitutes the refereed proceedings of the International Conference on Intelligent Computing and Information Science, ICICIS2011, held in Chongqing, China, in January 2011. The 226 revised full papers presented in both volumes, CCIS 134 and CCIS 135, were carefully reviewed and selected from over 600 initial submissions. The papers provide the reader with a broad overview of the latest advances in the field of intelligent computing and information science.

As cyberattacks continue to increase, the cost and reputation impacts of data breaches remain a top concern across all enterprises. Even if sensitive data is encrypted and is of no use now, cybercriminals are harvesting that data because they might gain access to a quantum computer that can break classical cryptographic algorithms sometime in the future. Therefore, organizations must start protecting their sensitive data today by using quantum-safe cryptography. This IBM® Redbooks® publication reviews some potential threats to classical cryptography by way of quantum computers and how to make best use of today's quantum-safe capabilities on the IBM Z platform. This book also provides guidance about how to get started on a quantum-safe journey and step-by-step examples for deploying IBM Z® quantum-safe capabilities. This publication is intended for IT managers, IT architects, system programmers, security administrators, and anyone who needs to plan for, deploy, and manage quantum-safe cryptography on the IBM Z platform. The reader is expected to have a basic understanding of IBM Z security concepts.

Electronic business plays a central role in the economy, facilitating the exchange of information, goods, services, and payments. It propels productivity and competitiveness and is accessible to all enterprises, and as such, represents an opportunity also for SME competitiveness. E-Business Issues, Challenges and Opportunities for SMEs: Driving Competitiveness discusses the main issues, challenges, opportunities, and solutions related to electronic business adoption, with a special focus on SMEs. Addressing technological, organizational, and legal perspectives in a very comprehensive way, this text aims to disseminate current developments, case studies, new integrated approaches, and practical solutions and applications for SMEs.

Digital solutions are sufficiently versatile and agile to shape business processes and enterprise architecture, answer the COVID-19 crisis, solve climate change, temper political conflict, generate new employment operating models, and solve health issues. These solutions benefit businesses as an integral part of the economy and society and therefore must be studied further to ensure they are utilized appropriately. The Handbook of Research on Digitalization Solutions for Social and Economic Needs introduces the agile operating model that has triggered digital transformation and the plethora of ways it has become of practical use recently. The book also argues the business rationale of digitalization. Covering key topics such as innovation, sustainability, and business transformation, this major reference work is ideal for business owners, managers, computer scientists, industry professionals, researchers, scholars, academicians, librarians, policymakers, practitioners, educators, and students.

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.

Creating Business Agility: How Convergence of Cloud, Social, Mobile, Video, and Big Data Enables Competitive Advantage provides a game plan for integrating technology to build a smarter, more customer-centric business. Using a series of case studies as examples throughout, the book describes the agility that comes from collaborative commerce, and provides key decision makers the implementation roadmap they need to build a successful business ecosystem. The focus is on Business Agility Readiness in terms of the five major changes affecting the information technology landscape, and how data-driven delivery platforms and decision-making processes are being reinvented using digital relationships with a social business model as the consumer world of technology drives innovation and collaboration. Cloud computing, social media, next-gen mobility, streaming video, and big data with predictive analytics are major forces now for a competitive advantage, and Creating Business Agility provides leaders with a roadmap for readiness. Business leaders tasked with innovation and strategy will find that Creating Business Agility provides important insight from an informed perspective.

For more than 40 years, Computerworld has been the leading source of technology news and information for IT influencers worldwide. Computerworld's award-winning Web site (Computerworld.com), twice-monthly publication, focused conference series and custom research form the hub of the world's largest global IT media network.

The Ultimate Value for Embedded Systems Professionals Most engineers rely on a small core of books that are specifically targeted to their job responsibilities. These dog-eared volumes are used daily and considered essential. But budgets and space commonly limit just how many books can be added to your core library. The Newnes Embedded Ultimate CD solves this problem. It contains seven of our best-selling titles, providing the "next level" of reference you will need for a fraction of the price of the hard-copy books purchased separately. The CD contains the complete PDF versions of the following Newnes titles: • Real-Time UML Workshop for Embedded Systems (Douglass) 0750679069 • Linux for Embedded and Real-Time Applications 2e (Abbott) 0750679328 • Embedded Systems Architecture (Noergaard) 0750677929 • The Firmware Handbook (Ganssle) 075067606X • Analog Interfacing to Embedded Microprocessor Systems 2e (Ball) 0750677236 • Embedded System Design on a Shoestring (Edwards) 0750676094 • The Art of Designing Embedded Systems (Ganssle) 0750698691 * Over 2000 pages of circuit reference material * Includes 7 title in full-function Adobe PDF format * Incredible value at a fraction of the cost of bound books

This document is the Enterprise Agility and Digital Transformation TOGAF Series Guide Set. It contains two TOGAF Series Guides that have been developed and approved by The Open Group, and is part of the TOGAF Standard, 10th Edition. TOGAF® Series Guide: Enabling Enterprise Agility This document is designed to help Enterprise Architects requiring information on how to adapt and use the TOGAF framework to support an Agile enterprise. It covers the following topics: • An introduction to the topic, including what is meant by agility, the role of Enterprise Architecture, and how it relates to agility • The terms and definitions used in the document • The TOGAF Architecture Development Method (ADM) and how that relates to agility • How architecture activities can be structured to support agility • How to execute Enterprise Architecture in an Agile environment TOGAF® Series Guide: Using the TOGAF® Standard in the Digital Enterprise This document is written those undertaking the roles of both Enterprise Architect and Digital Practitioner. For Digital Practitioners, it communicates what architecture practices would help to grow their digital enterprise, and how to interact with the Enterprise Architecture community to get them. For those undertaking an Enterprise Architect role, it provides guidance on supporting the digital enterprise. It covers the following topics: • A high-level introduction to how established Enterprise Architecture practices bring value to digital enterprises at all scales • How Enterprise Architecture and the TOGAF Standard bring valuable tools to digital enterprises of all sizes • Alignment of terminology between the TOGAF Standard and the Digital Practitioner Body of Knowledge™ • Applying Enterprise Architecture and the TOGAF Standard to the contexts described in the DPBoK™ Standard

A recent survey stated that 52% of embedded projects are late by 4-5 months. This book can help get those projects in on-time with design patterns. The author carefully takes into account the special concerns found in designing and developing embedded applications specifically concurrency, communication, speed, and memory usage. Patterns are given in UML (Unified Modeling Language) with examples including ANSI C for direct and practical application to C code. A basic C knowledge is a prerequisite for the book while UML notation and terminology is included. General C programming books do not include discussion of the contraints found within embedded system design. The practical examples give the reader an understanding of the use of UML and OO (Object Oriented) designs in a resource-limited environment. Also included are two chapters on state machines. The beauty of this book is that it can help you today. . Design Patterns within these pages are immediately applicable to your project Addresses embedded system design concerns such as concurrency, communication, and memory usage Examples contain ANSI C for ease of use with C programming code

The handbook presents an overview of Industry 4.0 and offers solutions for important practical questions. The law and its current challenges regarding data assignment (who owns the data? / EU guidelines), data security, data protection (General Data Protection Regulation), cyberattacks, competition law (right to access vs. monopolists, permissible and prohibited exchanges of information, possible collaborations) is the point of departure. In turn, the book explores peculiarities in specific areas of Industry 4.0 (Internet of Production, mechanical engineering, artificial intelligence, electromobility, autonomous driving, traffic, medical science, construction, energy industry, etc.). The book’s closing section addresses general developments in management, the digital transformation of companies and the world of work, and ethical questions.

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

Real-time and embedded systems face the same development challenges as traditional software: shrinking budgets and shorter timeframes. However, these systems can be even more difficult to successfully develop due to additional requirements for timeliness, safety, reliability, minimal resource use, and, in some cases, the need to support rigorous industry standards. In Real-Time Agility, leading embedded-systems consultant Bruce Powel Douglass reveals how to leverage the best practices of agile development to address all these challenges. Bruce introduces the Harmony/ESW process: a proven, start-to-finish approach to software development that can reduce costs, save time, and eliminate potential defects. Replete with examples, this book provides an ideal tutorial in agile methods for real-time and embedded-systems developers. It also serves as an invaluable “in the heat of battle” ref-

erence guide for developers working to advance projects, both large and small. Coverage includes How Model-Driven Development (MDD) and agile methods work synergistically The Harmony/ESW process, including roles, workflows, tasks, and work products Phases in the Harmony/ESW microcycle and their implementation Initiating a real-time agile project, including the artifacts you may (or may not) need Agile analysis, including the iteration plan, clarifying requirements, and validation The three levels of agile design: architectural, mechanistic, and detailed Continuous integration strategies and end-of-the-microcycle validation testing How Harmony/ESW's agile process self-optimizes by identifying and managing issues related to schedule, architecture, risks, workflows, and the process itself

"The authors address Agile/Virtual Enterprises as a new organizational paradigm, highly dynamic reconfigurable agile networks of independent enterprises sharing all resources, including knowledge, market, customers, etc., and using specific organizational architectures that introduce the enterprises' true virtual environments"--Provided by publisher.

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

This book provides users with cutting edge methods and technologies in the area of big data and visual analytics, as well as an insight to the big data and data analytics research conducted by world-renowned researchers in this field. The authors present comprehensive educational resources on big data and visual analytics covering state-of-the art techniques on data analytics, data and information visualization, and visual analytics. Each chapter covers specific topics related to big data and data analytics as virtual data machine, security of big data, big data applications, high performance computing cluster, and big data implementation techniques. Every chapter includes a description of an unique contribution to the area of big data and visual analytics. This book is a valuable resource for researchers and professionals working in the area of big data, data analytics, and information visualization. Advanced-level students studying computer science will also find this book helpful as a secondary textbook or reference.

Readers will : learn how to foster and maintain a culture of learning in K-12 classrooms ; discover how the tenet of instructional agility fits within the assessment framework ; gain strategies to enhance their instructional agility and assessment practices ; consider examples of teachers and administrators applying instructional agility in their daily practice ; answer questions to contemplate their next steps in bringing effective assessment and instructional agility to the classroom.--Publisher.

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!

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.

This dissertation proposes and tests a new construct applicable to real-time adaptation. Cognitive agility is a formative construct that measures the individual ability to exhibit cognitive flexibility, cognitive openness and focused attention. This research seeks to demonstrate whether the formative construct of cognitive agility predicts adaptive performance in a dynamic-decision-making microworld. 181 undergraduates performed three consecutive trials, each of increasing difficulty and cognitive demand, in a microworld computer game called Networked Fire Chief (NFC). The changes within and between trials require the participants to flexibly adapt strategies using both cognitive openness and focused attention, in order to score highly. The individual variables that form cognitive agility, as well as the formative construct, explain unique variance beyond measures of general intelligence on the total score of adaptive performance. Most notably, the cognitive agility construct explains unique variance beyond general intelligence in each of the respective methods of measurement (R2=11% for performance measures and R2=6% for both the self reports and other rater reports). The results indicate a novel combination of abilities that may further the study of real-time adaptability.

This is the eBook version of the printed book. If the print book includes a CD-ROM, this content is not included within the eBook version. Real-time and embedded systems face the same development challenges as traditional software: shrinking budgets and shorter timeframes. However, these systems can be even more difficult to successfully develop due to additional requirements for timeliness, safety, reliability, minimal resource use, and, in some cases, the need to support rigorous industry standards. In Real--Time Agility, leading embedded-systems consultant Bruce Powel Douglass reveals ho.

Written as a workbook with a set of guided exercises that teach by example, this book gives a practical, hands-on guide to using UML to design and implement embedded and real-time systems. A review of the basics of UML and the Harmony process for embedded software development: two on-going case examples to teach the concepts, a small-scale traffic light control system and a large scale unmanned air vehicle show the applications of UML to the specification, analysis and design of embedded and real-time systems in general. A building block approach: a series of progressive worked exercises with step-by-step explanations of the complete solution, clearly demonstrating how to convert concepts into actual designs. A walk through of the phases of an incremental spiral process: posing the problems and the solutions for requirements analysis, object analysis, architectural design, mechanistic design, and detailed design.

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.

This book contains the refereed proceedings of the 15th International Conference on Agile Software Development, XP 2014, held in Rome, Italy, in May 2014. Because of the wide application of agile approaches in industry, the need for collaboration between academics and practitioners has increased in order to develop the body of knowledge available to support managers, system engineers, and software engineers in their managerial/economic and architectural/project/technical decisions. Year after year, the XP conference has facilitated such improvements and provided evidence on the advantages of agile methodologies by examining the latest theories, practical applications, and implications of agile and lean methods. The 15 full papers, seven short papers, and four experience reports accepted for XP 2014 were selected from 59 submissions and are organized in sections on: agile development, agile challenges and contracting, lessons learned and agile maturity, how to evolve software engineering teaching, methods and metrics, and lean development.

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.

This book constitutes the thoroughly refereed proceedings of the 8th International Conference on Entertainment Computing, ICEC 2009, held in Paris, France, in September 2009, under the auspices of IFIP. The 14 revised long papers, 19 short papers and 23 poster papers and demos presented were carefully reviewed and selected from 105 submissions for inclusion in the book. The papers cover all main domains of entertainment computing, from interactive music to games, taking a wide range of scientific domains from aesthetic to computer science.

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.

The only globally-crowdsourced book on the future of payments ("-PayTech"), offering comprehensive understanding of a rapidly evolving industry at the centre of global commerce The movement of money between individuals, organisations and governments is crucial to the world economy. The payments industry has undergone immense transformation – new regulations, technologies and consumer demands have prompted significant changes to the tools, products and use cases in payments, as well as presented lucrative opportunities for entrepreneurs and FinTech professionals. As payment technologies become faster and more efficient, companies and investors are increasingly favouring PayTech innovation due to better customer experience, increased revenues and manageable risks. The PAYTECH Book brings together a diverse collection of industry experts to provide entrepreneurs, financial services professionals and investors with the answers they need to capitalise on the highly profitable PayTech market. Written by leaders in the global FinTech and payment sectors, this informative volume explains key industry developments and presents valuable first-hand insights from prominent industry practitioners. Contributors include advisors and consultants to the payments and financial services industry, entrepreneurs and business owners utilising cutting-edge PayTech capabilities, academic researchers exploring the social-political-economic impact of PayTech and many others. Detailed chapters cover essential topics such as cybersecurity, regulation and compliance, wholesale payments and how payment systems currently work and how PayTech can improve them. This book: Defines PayTech and identifies its key players Discusses how PayTech can transform developed markets and accelerate growth in emerging economies Describes how PayTech fits into the larger FinTech ecosystem Explores the future of PayTech and its potential as an agent of social change and financial inclusion Provides diverse per-

spectives on investment in PayTech and what consolidation and expansion will look like The PAYTECH Book: The Payment Technology Handbook for Investors, Entrepreneurs and FinTech Visionaries is an indispensable source of information for FinTech investors and entrepreneurs, managers from payments companies and financial services firms and executives responsible for payments in government, corporations, public sector organisations, retailers and users of payments.

Get up to date with the latest recipes for applying agile methodologies and techniques in model-based systems engineering (MBSE) and manage the growing complexity of systems in your organization with ease. Purchase of the print or Kindle book includes a free eBook in PDF format. Key Features Use this updated edition to learn how Agile and MBSE work iteratively and overcome system complexity Develop key systems engineering products and achieve enterprise objectives with step-by-step recipes Build efficient system engineering models using tried and trusted best practices Book Description Agile MBSE can help organizations manage change while ensuring system correctness and meeting customers' needs. But deployment challenges have changed since our first edition. The Agile Model-Based Systems Engineering Cookbook's second edition focuses on workflows – or recipes – that will help MBSE practitioners and team leaders address practical situations that are part of deploying MBSE as part of an agile development process across the enterprise. In this 2nd edition, the Cameo MagicDraw Systems Modeler tool – the most popular tool for MBSE – is used in examples (models are downloadable by readers). Written by a world-renowned expert in MBSE, this book will take you through systems engineering workflows in the Cameo Systems Modeler SysML modeling tool and show you how they can be used with an agile and model-based approach. You'll start with the key concepts of agile methods for systems engineering. Next, each recipe will take you through initiating a project, outlining stakeholder needs, defining and analyzing system requirements, specifying system architecture, performing model-based engineering trade studies, all the way to handling systems specifications off to downstream engineering. By the end of this MBSE book, you'll learn how to implement systems engineering workflows and create systems engineering models. What you will learn Learn how to apply modelling to create and manage important engineering data Apply agile methods to develop systems engineering specifications Communicate decisions with downstream subsystem implementation teams Coordinate with engineers from other disciplines Apply MBSE practices to problems within simple systems or large systems Ensure accurate systems models via tests, simulation, and verification Who this book is for If you are a systems engineer who wants to pursue model-based systems engineering in an agile setting, this book will show you how you can do that without breaking a sweat. Fundamental knowledge of SysML is necessary; the book will teach you the rest.

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

'Essential reading.' - Susan Cain, author of Quiet Every day we speak around 16,000 words - but inside our minds we create tens of thousands more. Thoughts such as 'I'm not spending enough time with my children' or 'I'm not good enough to present my work' can seem to be unshakable facts. In reality, they're the judgemental opinions of our inner voice. Drawing on more than twenty years of academic research, consulting, and her own experiences overcoming adversity, Susan David PhD, a psychologist and faculty member at Harvard Medical School, has pioneered a new way to enable us to make peace with our inner self, achieve our most valued goals, make real change, and live life to the fullest. Susan David has found that emotionally agile people experience the same stresses and setbacks as anyone else. The difference is the emotionally agile know how to unhook themselves from unhelpful patterns, and how to create values-based success with better habits and behaviours. Emotional Agility describes a new way of living and relating to yourself and the world around you. Become aware of your true nature, learn to face your emotions with acceptance and generosity, act according to your deepest values, and flourish. 'An accessible, reader-friendly voyage. Emotional Agility can be helpful to anyone.' - Daniel Goleman, author of Emotional Intelligence Susan David has a PhD in psychology and a post-doctorate in emotions research from Yale. She is a psychologist at the Harvard Medical School and a founder and director at the Harvard/McLean-affiliated Institute of Coaching. Susan is the CEO of Evidence Based Psychology, whose worldwide client list includes Ernst and Young Global, the UN Development Program, JP Morgan Chase and GlaxoSmithKline. She has edited a number of books including the Oxford Handbook of Happiness and her research has featured in theHarvard Business Review, TIME and the Wall Street Journal. Born in South Africa, Susan now lives in Boston with her family.

This is the eBook version of the printed book. If the print book includes a CD-ROM, this content is not included within the eBook version.Real-time and embedded systems face the same development challenges as traditional software: shrinking budgets and shorter timeframes. However, these systems can be even more difficult to successfully develop due to additional requirements for timeliness, safety, reliability, minimal resource use, and, in some cases, the need to support rigorous industry standards. In "Real--Time Agility, " leading embedded-systems consultant Bruce Powel Douglass reveals how to leverage the best practices of agile development to address all these challenges. Bruce introduces the Harmony/ESW process: a proven, start-to-finish approach to software development that can reduce costs, save time, and eliminate potential defects. Replete with examples, this book provides an ideal tutorial in agile methods for real-time and embedded-systems developers. It also serves as an invaluable "in the heat of battle" reference guide for developers working to advance projects, both large and small. Coverage includes How Model-Driven Development (MDD) and agile methods work synergistically The Harmony/ESW process, including roles, workflows, tasks, and work products Phases in the Harmony/ESW microcycle and their implementation Initiating a real-time agile project, including the artifacts you may (or may not) need Agile analysis, including the iteration plan, clarifying requirements, and validation The three levels of agile design: architectural, mechanistic, and detailed Continuous integration strategies and end-of-the-microcycle validation testing How Harmony/ESW's agile process self-optimizes by identifying and managing issues related to schedule, architecture, risks, workflows, and the process itself

The Agile Model-Based Systems Engineering Cookbook distills the most relevant MBSE workflows and work products into a set of easy-to-follow recipes, complete with examples of their application. This book serves as a quick and reliable practical reference for systems engineers looking to apply agile MBSE to real-world projects.

"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 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

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.

This book describes cutting-edge applications of human factors for sports, injury prevention and outdoor recreation disciplines and provide practical guidance on a range of methods for describing, representing, and evaluating human, team, and system performance in various domains. Contributions in this book show how various human factors methods, applied historically in the complex safety critical domains, are suited to describing and understanding sports performance and sports injury prevention. The book discusses a wealth of methods for different purposes, such as data collection, task analysis (including cognitive task analysis), workload measurement, assessing situation awareness, performance assessment (including team performance assessment),decision making and cognition in sports, human error identification, and interface evaluation methods. With respect to other publications in human factors and ergonomics, which have been more focused on the biomechanical, physiological, environmental, and equipment-related aspects of sports performance, this book gives a special emphasis to research on analysis of individual and team sports, cognitive and social human factors, and covers both sports and outdoor recreation disciplines. Based on the AHFE 2017 Conference on Human Factors in Sports, Injury Prevention and Outdoor Recreation, held on July 17-21, 2017, in Los Angeles, California, USA, this book provides readers with a timely survey of new methods that can be implemented during any sport or outdoor recreation event, and for analyzing and improving the performance and safety of both individuals and teams.

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.

As the Fourth Industrial Revolution barrels forward and the pace of disruption accelerates, all organizations must operate with agility. But this urgent priority, now widely-accepted by senior leaders, presents a major challenge: In business, government, and warfare, agility is a buzzword. There is no common understanding of what it means, or of what it takes to be consistently agile. In this groundbreaking book, Leo Tilman and Charles Jacoby offer the first comprehensive assessment of the fundamental nature of organizational agility and then describe the essential leadership practices for achieving it. They show that agility is far superior to mere speed or adaptability. Pinpointing its distinctive features, they define agility as the ability to detect and assess changes in the competitive environment in real time and then take decisive action. They demonstrate that agility enables an organization to outmaneuver competitors by seizing opportunities; better defending against threats; and acting as a well-orchestrated collective of teams that are empowered to take disciplined initiative. Combining their personal experience of building and leading agile organi-

zations, Tilman in the realm of business and finance and Jacoby in battlefield command and homeland security, they present a powerful approach to fostering agility up and down an organization, and out to its very edges. They show how to detect opportunities and threats by fighting for risk intelligence; how to pierce through complexity and unleash creativity by nurturing a culture of honesty and trust; how to meld top-down vision and planning with decentralized execution; and how to enhance strategy by recognizing organizations as dynamic portfolios of risk. In a world where leaders and their teams must brave the unknown and step confidently forward – or risk extinction – Agility provides a vital roadmap for seizing the unprecedented possibilities of the new age and dominating change instead of being dominated by it.