

# Safescrum Agile Development Of Safety Critical So

*Technology and Assessment of Safety-Critical Systems* Felix Redmill, Tom Anderson. 2012-12-06 The programme for the Second Safety-critical Systems Symposium was planned to examine the various aspects of technology currently employed in the design of safety-critical systems, as well as to emphasise the importance of safety and risk management in their design and operation. There is an even balance of contributions from academia and industry. Thus, industry is given the opportunity to express its views of the safety-critical domain and at the same time offered a glimpse of the technologies which are currently under development and which, if successful, will be available in the medium-term future. In the field of technology, a subject whose importance is increasingly being recognised is human factors, and there are papers on this from the University of Hertfordshire and Rolls-Royce. Increasingly, PLCs are being employed in safety-critical applications, and this domain is represented by contributions from Nuclear Electric and August Computers. Then there are papers on maintainability, Ada, reverse engineering, social issues, formal methods, and medical systems, all in the context of safety. And, of course, it is not possible to keep the 'new' technologies out of the safety-critical domain: there are papers on neural networks from the University of Exeter and knowledge-based systems from ERA Technology.

**Developing Safe Systems** Mike Parsons. 2015-12-30 *Developing Safe Systems* contains papers presented at the twenty-fourth annual Safety-critical Systems Symposium, held in Brighton, UK, in February 2016. The Symposium is for engineers, managers and academics in the field of system safety, across all industry sectors, so the papers making up this volume offer wide coverage of current safety topics, and a blend of academic research and industrial experience. They include both recent developments in the field and discussion of open issues and questions. The topics covered in this volume include: autonomy and vehicles, systems safety and cyber security, data safety, human error, agile methods, sub-sea gliders and aviation accident investigations. This book will be of interest to practitioners, managers and academics working in the safety-critical and safety-related systems areas.

**Safety and Reliability of Complex Engineered Systems** Luca Podofillini, Bruno Sudret, Bozidar Stojadinovic, Enrico Zio, Wolfgang Kröger. 2015-09-03 *Safety and Reliability of Complex Engineered Systems* contains the Proceedings of the 25th European Safety and Reliability Conference, ESREL 2015, held 7-10 September 2015 in Zurich, Switzerland. It includes about 570 papers accepted for presentation at the conference. These contributions focus on theories and methods in the area of risk, safety and

**Embedded Software Development for Safety-Critical Systems** Chris Hobbs. 2020-09-30 I highly recommend Mr. Hobbs' book. - Stephen Thomas, PE, Founder and Editor of FunctionalSafetyEngineer.com Safety-critical devices, whether medical, automotive, or industrial, are increasingly dependent on the correct operation of sophisticated software. Many standards have appeared in the last decade on how such systems should be designed and built. Developers, who previously only had to know how to program devices for their industry, must now understand remarkably esoteric development practices and be prepared to justify their work to external auditors. *Embedded Software Development for Safety-Critical Systems* discusses the development of safety-critical systems under the following standards: IEC 61508; ISO 26262; EN 50128; and IEC 62304. It details the advantages and disadvantages of many architectural and design practices recommended in the standards, ranging from replication and diversification, through anomaly detection to the so-called safety bag systems. Reviewing the use of open-source components in safety-critical systems, this book has evolved from a course text used by QNX Software Systems for a training module on building embedded software for safety-critical devices, including medical devices, railway systems, industrial systems, and driver assistance devices in cars. Although the book describes open-source tools for the most part, it also provides enough information for you to seek out commercial vendors if that's the route you decide to pursue. All of the techniques described in this book may be further explored through hundreds of learned articles. In order to provide you with a way in, the author supplies references he has found helpful as a working software developer. Most of these references are available to download for free.

**Product-Focused Software Process Improvement** Michael Felderer, Daniel Méndez Fernández, Burak Turhan, Marcos Kalinowski, Federica Sarro, Dietmar Winkler. 2017-11-10 This book constitutes the refereed proceedings of the 18th International Conference on Product-Focused Software Process Improvement, PROFES 2017, held in Innsbruck, Austria, in November/December 2017. The 17 revised full papers presented together with 10 short papers, 21 workshop papers, 3 posters and tool demonstrations papers, and 4 tutorials were carefully reviewed and selected from 72 submissions. The papers are organized in topical sections on : Agile software Development; Data science and analytics; Software engineering processes and frameworks; Industry relevant qualitative research; User and value centric approaches; Software startups; Serum; Software testing.

*Safety and Reliability. Theory and Applications* Marko Cepin, Radim Bris. 2017-06-14 *Safety and Reliability - Theory and Applications* contains the contributions presented at the 27th European Safety and Reliability Conference (ESREL 2017, Portorož, Slovenia, June 18-22, 2017). The book covers a wide range of topics, including: • Accident and Incident modelling • Economic Analysis in Risk Management • Foundational Issues in Risk Assessment and Management • Human Factors and Human Reliability • Maintenance Modeling and Applications • Mathematical Methods in Reliability and Safety • Prognostics and System Health Management • Resilience Engineering • Risk Assessment • Risk Management • Simulation for Safety and Reliability Analysis • Structural Reliability • System Reliability, and • Uncertainty Analysis. Selected special sessions include contributions on: the Marie Skłodowska-Curie innovative training network in structural safety; risk approaches in insurance and finance sectors; dynamic reliability and probabilistic safety assessment; Bayesian and statistical methods, reliability data and testing; organizational factors and safety culture; software reliability and safety; probabilistic methods applied to power systems; socio-technical-economic systems; advanced safety assessment methodologies: extended Probabilistic Safety Assessment; reliability; availability; maintainability and safety in railways: theory & practice; big data risk analysis and management, and model-based reliability and safety engineering. *Safety and Reliability - Theory and Applications* will be of interest to professionals and academics working in a wide range of industrial and governmental sectors including: Aeronautics and Aerospace, Automotive Engineering, Civil Engineering, Electrical and Electronic Engineering, Energy Production and Distribution, Environmental Engineering, Information Technology and Telecommunications, Critical Infrastructures, Insurance and Finance, Manufacturing, Marine Industry, Mechanical Engineering, Natural Hazards, Nuclear Engineering, Offshore Oil and Gas, Security and Protection, Transportation, and Policy Making.

**Balancing Agility and Discipline** Barry W. Boehm, Richard Turner. 2004 *Balancing Agility and Discipline* begins by defining the terms, sweeping aside the rhetoric and drilling down to core concepts. The authors describe a day in the life of developers who live on one side or the other. Their analysis is both objective and grounded, leading to clear and practical guidance for all software professionals.

*Current Issues in Safety-Critical Systems* Felix Redmill. 2003-02-10 *Current Issues in Safety-Critical Systems* contains the invited papers presented at the eleventh annual Safety-critical Systems Symposium, held in February 2003. The safety-critical systems domain is rapidly expanding and its industrial problems are always candidates for academic research. It embraces almost all industry sectors; current issues in one are commonly appropriate to others. The Safety-critical System Symposium provides an annual forum for discussing such issues. The papers contained within this volume cover a broad range of subjects. They represent a great deal of industrial experience as well as some academic research. All the papers are linked by addressing current issues in safety-critical systems: Dependability Requirements Engineering; Human Error Management; Influences on Risk; Safety Cases; Reforming the Law; Safety Management and Safety Standards.

**Safer C** Les Hatton.1995 This important and timely book contains vital information for all developers working with C, whether in high-integrity areas or not, who need to produce reliable and effective software.

**Functional Safety and Proof of Compliance** Thor Myklebust,Tor Stålhane.2022-01-03 This book aims to facilitate and improve development work related to all documents and information required by functional safety standards. Proof of Compliance (PoC) is important for the assessor and certification bodies when called up to confirm that the manufacturer has developed a software system according to the required safety standards. While PoC documents add functionality to the product neither for the developer nor for the customer, they do add confidence and trust to the product and ease certification, and as such are important for the product's value. In spite of this added value, the documentation needed for PoC is often developed late in the project and in a haphazard manner. This book aims at developers, assessors, certification bodies, and purchasers of safety instrumented systems and informs the reader about the most important PoC documents. A typical PoC documentation encompasses 50 to 200 documents, several of which are named in the safety standards (e.g., 82 documents in IEC 61508:2010 series, 101 documents in EN 5012X series and 106 work products in ISO 26262:2018 series). These documents also include further references, typically one to twenty of them, and the total number of pages developed by the manufacturer varies between 2000 and 10000 pages. The book provides guidance and examples what to include in the relevant plans and documents.

**SAFe 5.0 Distilled** Richard Knaster,Dean Leffingwell.2020-06-05 SAFe® 5.0: The World's Leading Framework for Business Agility Those who master large-scale software delivery will define the economic landscape of the twenty-first century. SAFe 5.0 is a monumental release that I am convinced will be key in helping countless enterprise organizations succeed in their shift from project to product. –Dr. Mik Kersten, CEO of Tasktop and author of the book Project to Product Business agility is the ability to compete and thrive in the digital age by quickly responding to unprecedented market changes, threats, and emerging opportunities with innovative business solutions. SAFe® 5.0 Distilled: Achieving Business Agility with Scaled Agile Framework® explains how adopting SAFe helps enterprises use the power of Agile, Lean, and DevOps to outflank the competition and deliver complex, technology-based business solutions in the shortest possible time. This book will help you Understand the business case for SAFe: its benefits, and the problems it solves Learn the technical, organizational and leadership competencies needed for business agility Refocus on customer centricity with design thinking Better align strategy and execution with Lean Portfolio Management Learn the leadership skills needed to thrive in the digital age Increase the flow of value to customers with value stream networks Register your book for convenient access to downloads, updates, and/or corrections as they become available. See inside book for details.

**SAFe 4.0 Reference Guide** Dean Leffingwell.2016

**Computer Safety, Reliability, and Security. SAFECOMP 2021 Workshops** Ibrahim Habli,Mark Sujan,Simos Gerasimou,Erwin Schoitsch,Friedemann Bitsch.2021-08-25 This book constitutes the proceedings of the Workshops held in conjunction with SAFECOMP 2021, the 40th International Conference on Computer Safety, Reliability and Security, which took place in York, UK, in September 2021. The 26 regular papers included in this volume were carefully reviewed and selected from 34 submissions. The workshops included in this volume are: DECSoS 2021: 16th Workshop on Dependable Smart Embedded and Cyber-Physical Systems and Systems-of-Systems WAISE 2021: Fourth International Workshop on Artificial Intelligence Safety Engineering DepDevOps 2021: Second International Workshop on Dependable Development-Operation Continuum Methods for Dependable Cyber-Physical Systems USDAI 2021: Second International Workshop on Underpinnings for Safe Distributed AI MAPSOD 2021: First International Workshop on Multi-concern Assurance Practices in Software Design

**The Professional Product Owner** Don McGreal,Ralph Jocham.2018-06-04 The Professional Product Owner's Guide to Maximizing Value with Scrum "This book presents a method of communicating our desires, cogently, coherently, and with a minimum of fuss and bother." —Ken Schwaber, Chairman & Founder, Scrum.org The role of the Product Owner is more crucial than ever. But it's about much more than mechanics: it's about taking accountability and refocusing on value as the primary objective of all you do. In The Professional Product Owner, two leading experts in successful Scrum product ownership show exactly how to do this. You'll learn how to identify where value can be found, measure it, and maximize it throughout your entire product lifecycle. Drawing on their combined 40+ years of experience in using agile and Scrum in product management, Don McGreal and Ralph Jocham guide you through all facets of envisioning, emerging, and maturing a product using the Scrum framework. McGreal and Jocham discuss strategy, showing how to connect Vision, Value, and Validation in ROI-focused agile product management. They lay out Scrum best-practices for managing complexity and continuously delivering value, and they define the concrete practices and tools you can use to manage Product Backlogs and release plans, all with the goal of making you a more successful Product Owner. Throughout, the authors share revealing personal experiences that illuminate obstacles to success and show how they can be overcome. Define success from the "outside in," using external customer-driven measurements to guide development and maximize value Bring empowerment and entrepreneurship to the Product Owner's role, and align everyone behind a shared business model Use Evidence-Based Management (EBMgt) to invest in the right places, make smarter decisions, and reduce risk Effectively apply Scrum's Product Owner role, artifacts, and events Populate and manage Product Backlogs, and use just-in-time specifications Plan and manage releases, improve transparency, and reduce technical debt Scale your product, not your Scrum Use Scrum to inject autonomy, mastery, and purpose into your product team's work Whatever your role in product management or agile development, this guide will help you deliver products that offer more value, more rapidly, and more often. Register your book for convenient access to downloads, updates, and/or corrections as they become available. See inside book for details.

**Safety and Reliability. Theory and Applications** Marko Cepin,Radim Bris.2017-06-14 Safety and Reliability - Theory and Applications contains the contributions presented at the 27th European Safety and Reliability Conference (ESREL 2017, Portorož, Slovenia, June 18-22, 2017). The book covers a wide range of topics, including: • Accident and Incident modelling • Economic Analysis in Risk Management • Foundational Issues in Risk Assessment and Management • Human Factors and Human Reliability • Maintenance Modeling and Applications • Mathematical Methods in Reliability and Safety • Prognostics and System Health Management • Resilience Engineering • Risk Assessment • Risk Management • Simulation for Safety and Reliability Analysis • Structural Reliability • System Reliability, and • Uncertainty Analysis. Selected special sessions include contributions on: the Marie Skłodowska-Curie innovative training network in structural safety; risk approaches in insurance and finance sectors; dynamic reliability and probabilistic safety assessment; Bayesian and statistical methods, reliability data and testing; organizational factors and safety culture; software reliability and safety; probabilistic methods applied to power systems; socio-technical-economic systems; advanced safety assessment methodologies: extended Probabilistic Safety Assessment; reliability; availability; maintainability and safety in railways: theory & practice; big data risk analysis and management, and model-based reliability and safety engineering. Safety and Reliability - Theory and Applications will be of interest to professionals and academics working in a wide range of industrial and governmental sectors including: Aeronautics and Aerospace, Automotive Engineering, Civil Engineering, Electrical and Electronic Engineering, Energy Production and Distribution, Environmental Engineering, Information Technology and Telecommunications, Critical Infrastructures, Insurance and Finance, Manufacturing, Marine Industry, Mechanical Engineering, Natural Hazards, Nuclear Engineering, Offshore Oil and Gas, Security and Protection, Transportation, and Policy Making.

**Agile Processes in Software Engineering and Extreme Programming** Hubert Baumeister,Horst Lichter,Matthias Riebisch.2017-04-12 This book is open access under a CC BY license. The volume constitutes the proceedings of the 18th International Conference on Agile Software Development, XP 2017, held in Cologne, Germany, in May 2017. The 14 full and 6 short papers presented in this volume were carefully reviewed and selected from 46 submissions. They were organized in topical sections named: improving agile processes; agile in organization; and safety critical software. In addition, the volume contains 3 doctoral symposium papers (from 4 papers submitted).

**Evolution of System Safety** Mike Parsons.2018-01-11 Evolution of System Safety contains papers presented at the twenty-sixth annual Safety-critical Systems Symposium, held in York, UK, in February 2018. The

Symposium is for engineers, managers and academics in the field of system safety, across all industry sectors, so the papers making up this volume offer wide coverage of current safety topics, and a blend of academic research and industrial experience. They include both recent developments in the field and discussion of open issues and questions. The topics covered in this volume include: Autonomy, AI and Machine Learning, Safety Services, Improving Practice, Human Factors and Safety Culture, Risk Analysis and Assessment, Security Informed Safety, Data Safety and Agile Development. This book will be of interest to practitioners, managers and academics working in the safety-critical and safety-related systems areas.

**Developments in Risk-based Approaches to Safety** Felix Redmill, Tom Anderson. 2007-12-28 This book assembles papers presented at the 14th Annual Safety-critical Systems Symposium, held at Bristol, UK in February 2006. The papers address the most critical topics in the field of safety-critical systems. The focus, considered from various perspectives, is on recent developments in risk-based approaches. Subjects discussed include innovation in risk analysis, management risk, the safety case, software safety, language development and the creation of systems for complex control functions.

**Product-Focused Software Process Improvement** Xavier Franch, Tomi Männistö, Silverio Martínez-Fernández. 2019-11-18 This book constitutes the refereed proceedings of the 20th International Conference on Product-Focused Software Process Improvement, PROFES 2019, held in Barcelona, Spain, in November 2019. The 24 revised full papers, 4 industry papers, and 11 short papers presented were carefully reviewed and selected from 104 submissions. The papers cover a broad range of topics related to professional software development and process improvement driven by product and service quality needs. They are organized in topical sections on testing, software development, technical debt, estimations, continuous delivery, agile, project management, microservices, and continuous experimentation. This book also includes papers from the co-located events: 10 project papers, 8 workshop papers, and 4 tutorial summaries.

**Agile Processes in Software Engineering and Extreme Programming** Casper Lassenius, Torgeir Dingsøy, Maria Paasivaara. 2015-05-15 This book contains the refereed proceedings of the 16th International Conference on Agile Software Development, XP 2015, held in Helsinki, Finland, in May 2015. While agile development has already become mainstream in industry, this field is still constantly evolving and continues to spur an enormous interest both in industry and academia. The XP conference series has always played, and continues to play, an important role in connecting the academic and practitioner communities, providing a forum for both formal and informal sharing and development of ideas, experiences, and opinions. The theme of XP 2015 Delivering Value: Moving from Cyclic to Continuous Value Delivery reflects the modern trend towards organizations that are simultaneously very efficient and flexible in software development and delivery. The 15 full and 7 short papers accepted for XP 2015 were selected from 44 submissions. All of the submitted papers went through a rigorous peer-review process. Additionally, 11 experience reports were selected from 45 proposals, and in each case the authors were shepherded by an experienced researcher.

*Team Topologies* Matthew Skelton, Manuel Pais. 2019-09-17 Effective software teams are essential for any organization to deliver value continuously and sustainably. But how do you build the best team organization for your specific goals, culture, and needs? Team Topologies is a practical, step-by-step, adaptive model for organizational design and team interaction based on four fundamental team types and three team interaction patterns. It is a model that treats teams as the fundamental means of delivery, where team structures and communication pathways are able to evolve with technological and organizational maturity. In Team Topologies, IT consultants Matthew Skelton and Manuel Pais share secrets of successful team patterns and interactions to help readers choose and evolve the right team patterns for their organization, making sure to keep the software healthy and optimize value streams. Team Topologies is a major step forward in organizational design for software, presenting a well-defined way for teams to interact and interrelate that helps make the resulting software architecture clearer and more sustainable, turning inter-team problems into valuable signals for the self-steering organization.

*Agile Processes, in Software Engineering, and Extreme Programming* Helen Sharp, Tracy Hall. 2016-05-14 This book contains the refereed proceedings of the 17th International Conference on Agile Software Development, XP 2016, held in Edinburgh, UK, in May 2016. While agile development has already become mainstream in industry, this field is still constantly evolving and continues to spur an enormous interest both in industry and academia. To this end, the XP conference attracts a large number of software practitioners and researchers, providing a rare opportunity for interaction between the two communities. The 14 full papers accepted for XP 2016 were selected from 42 submissions. Additionally, 11 experience reports (from 25 submissions), 5 empirical studies (out of 12 submitted) and 5 doctoral papers (from 6 papers submitted) were selected, and in each case the authors were shepherded by an experienced researcher. Generally, all of the submitted papers went through a rigorous peer-review process.

*Directions in Safety-Critical Systems* Felix Redmill, Tom Anderson. 2012-12-06 This is the proceedings of the first annual symposium of the Safety-critical Systems Club (The Watershed Media Centre, Bristol, 9-11 February 1993), which provided a forum for exploring and discussing ways of achieving safety in computer systems to be used in safety-critical industrial applications. The book is divided into three parts, which correspond with the themes of the three days of the symposium. The first - Experience from Around Europe - brings together information on developments in safety-critical systems outside the UK. The second - Current Research - consists of papers on large projects within the UK, which involve collaboration between academia and industry, providing techniques and methods to enhance safety. The final part - Achieving and Evaluating Safety - explores how methods already in use in other domains may be applied to safety, and examines the relationships between safety and other attributes such as quality and security. The papers identify the current problems and issues of interest in the field of safety-critical software-based systems, and provide valuable up-to-date material for those in both academia and industry. The academic will benefit from information about current research complementary to his own, and the industrialist will learn of the technologies which will soon be available and where to find them.

*Computer Safety, Reliability, and Security* Andrea Bondavalli, Andrea Ceccarelli, Frank Ortmeier. 2014-08-27 This book constitutes the refereed proceedings of 6 workshops co-located with SAFECOMP 2014, the 33rd International Conference on Computer Safety, Reliability, and Security, held in Florence, Italy, in September 2014. The 32 revised full and 10 short papers presented were carefully reviewed and selected from 58 submissions. They are complemented with 6 introductions to each of the workshops: Architecting Safety in Collaborative Mobile Systems, ASCoMS'14; ERCIM/EWICS/ARTEMIS Workshop on Dependable Embedded and Cyberphysical Systems and Systems-of-Systems, DECSoS'14; DEvelopment, Verification and VALidation of cRiTical Systems, DEVVARTS'14; Integration of Safety and Security Engineering, ISSE'14; Reliability and Security Aspects for Critical Infrastructure Protection, ReSA4CI'14; Next Generation of System Assurance Approaches for Safety-Critical Systems, SASSUR'14.

**Achievement and Assurance of Safety** Felix Redmill, Tom Anderson. 2012-12-06 Each year there are improvements in safety-critical system technology. These arise both from developments in the contributing technologies, such as safety engineering, software engineering, human factors and risk assessment, and from the adoption or adaptation of appropriate techniques from other domains, such as security. For these improvements to be of real benefit, they need to be applied during the appropriate stage in the life cycle of the system, whether it be development, assessment, or operation. For this to occur, they must be communicated and explained. Each year the Safety-critical Systems Symposium offers a distinguished forum for the presentation of papers on such developments, and also for papers from industry on the lessons learned from the use of technologies and methods. The results of many collaborative research projects, with components from both industry and academia, are reported in a universally understandable form. In 1995 the Symposium was held in Brighton, a venue calculated to stimulate not just the presenters of papers, but all the delegates. Yet, this book of Proceedings is intended not only for the delegates but also for readers not able to attend the event itself. We welcome both categories of reader. Delegates have the benefit of attending the presentations and the opportunity to participate in the discussions; those who take up this book after the event can peruse it at their leisure and, perhaps, on account of it will resolve to attend subsequent symposia.

**SAFe 4.5 Reference Guide** Dean Leffingwell. 2018-05-04 The Must-have Reference Guide for SAFe® Professionals "There are a lot of methods of scale out there, but the Scaled Agile Framework is the one lighting up the world." -Steve Elliot, Founder/CEO AgileCraft "Since beginning our Lean-Agile journey with SAFe, Vantiv has focused its strategic efforts and its execution. We have improved the predictability of product delivery while

maintaining high quality, and have become even more responsive to customers—resulting in higher customer satisfaction. And just as important, employee engagement went up over the past year.” –Dave Kent, Enterprise Agile Coach, Vantiv Fully updated to include the new innovations in SAFe 4.5, the SAFe® 4.5 Reference Guide is ideal for anyone serious about learning and implementing the world’s leading framework for enterprise agility. Inside, you’ll find complete coverage of the scaledagileframework.com knowledge base, the website that thousands of the world’s largest brands turn to for building better software and systems. SAFe was developed from real-world field experience and provides proven success patterns for implementing Lean-Agile software and systems development at enterprise scale. This book provides comprehensive guidance for work at the enterprise Portfolio, Large Solution, Program, and Team levels, including the various roles, activities, and artifacts that constitute the Framework. Education & Training Key to Success The practice of SAFe is spreading rapidly throughout the world. The majority of Fortune 100 companies have certified SAFe professionals and consultants, as do an increasing percentage of the Global 2000. Case study results—visit scaledagileframework.com/case-studies—typically include: 30 — 75% faster time-to-market 25 — 75% increase in productivity 20 — 50% improvements in quality 10 — 50% increased employee engagement Successful implementations may vary in context but share a common attribute: a workforce well trained and educated in SAFe practices. This book—along with authorized training and certification—will help you understand how to maximize the value of your role within a SAFe organization. The result is greater alignment and visibility, improved performance throughout the enterprise, and ultimately better outcomes for the business.

**Conceptual Modeling of Information Systems** Antoni Olivé.2007-08-15 This brilliant textbook explains in detail the principles of conceptual modeling independently from particular methods and languages and shows how to apply them in real-world projects. The author covers all aspects of the engineering process from structural modeling over behavioral modeling to meta-modeling, and completes the presentation with an extensive case study based on the osCommerce system. Written for computer science students in classes on information systems modeling as well as for professionals feeling the need to formalize their experiences or to update their knowledge, Olivé delivers here a comprehensive treatment of all aspects of the modeling process. His book is complemented by lots of exercises and additional online teaching material.

**Test Driven Development for Embedded C** James W. Grenning.2011-04-25 Another day without Test-Driven Development means more time wasted chasing bugs and watching your code deteriorate. You thought TDD was for someone else, but it's not! It's for you, the embedded C programmer. TDD helps you prevent defects and build software with a long useful life. This is the first book to teach the hows and whys of TDD for C programmers. TDD is a modern programming practice C developers need to know. It's a different way to program—unit tests are written in a tight feedback loop with the production code, assuring your code does what you think. You get valuable feedback every few minutes. You find mistakes before they become bugs. You get early warning of design problems. You get immediate notification of side effect defects. You get to spend more time adding valuable features to your product. James is one of the few experts in applying TDD to embedded C. With his 1.5 decades of training, coaching, and practicing TDD in C, C++, Java, and C# he will lead you from being a novice in TDD to using the techniques that few have mastered. This book is full of code written for embedded C programmers. You don't just see the end product, you see code and tests evolve. James leads you through the thought process and decisions made each step of the way. You'll learn techniques for test-driving code right next to the hardware, and you'll learn design principles and how to apply them to C to keep your code clean and flexible. To run the examples in this book, you will need a C/C++ development environment on your machine, and the GNU GCC tool chain or Microsoft Visual Studio for C++ (some project conversion may be needed).

**SafeScrum® - Agile Development of Safety-Critical Software** Geir Kjetil Hanssen, Tor Stålhane, Thor Myklebust.2018-11-23 This book addresses the development of safety-critical software and to this end proposes the SafeScrum® methodology. SafeScrum® was inspired by the agile method Scrum, which is extensively used in many areas of the software industry. Scrum is, however, not intended or designed for use with safety-critical systems; hence the authors propose guidelines and additions to make it both practically useful and compliant with the additional requirements found in safety standards. The book provides an overview of agile software development and how it can be linked to safety and relevant safety standards. SafeScrum® is described in detail as a useful approach for reaping the benefits of agile methods, and is intended as a set of ideas and a basis for adaptation in industry projects. The book covers roles, processes and practices, and documentation. It also includes tips on how standard software process tools can be employed. Lastly, some insights into relevant research in this new and emerging field are provided, and selected real-world examples are presented. The ideas and descriptions in this book are based on collaboration with the industry, in the form of discussions with assessment organizations, general discussions within the research fields of safety and software, and last but not least, the authors’ own experiences and ideas. It was mainly written for practitioners in industry who know a great deal about how to produce safety-critical software but less about agile development in general and Scrum in particular.

**Large-Scale Scrum** Craig Larman, Bas Vodde.2016-09-30 The Go-To Resource for Large-Scale Organizations to Be Agile Rather than asking, “How can we do agile at scale in our big complex organization?” a different and deeper question is, “How can we have the same simple structure that Scrum offers for the organization, and be agile at scale rather than do agile?” This profound insight is at the heart of LeSS (Large-Scale Scrum). In Large-Scale Scrum: More with LeSS, Craig Larman and Bas Vodde have distilled over a decade of experience in large-scale LeSS adoptions towards a simpler organization that delivers more flexibility with less complexity, more value with less waste, and more purpose with less prescription. Targeted to anyone involved in large-scale development, Large-Scale Scrum: More with LeSS, offers straight-to-the-point guides for how to be agile at scale, with LeSS. It will clearly guide you to Adopt LeSS Structure a large development organization for customer value Clarify the role of management and Scrum Master Define what your product is, and why Be a great Product Owner Work with multiple whole-product focused feature teams in one Sprint that produces a shippable product Coordinate and integrate between teams Work with multi-site teams

**A System-Theoretic Safety Engineering Approach for Software-Intensive Systems** Asim Ali Ahmed Abdulkhaleq.2017-02-23 Software safety is a crucial aspect during the development of modern safety-critical systems. However, safety is a system level property, and therefore, must be considered at the system-level to ensure the whole system’s safety. In the software development process, formal verification and functional testing are complementary approaches which are used to verify the functional correctness of software; however, even perfectly reliable software could lead to an accident. The correctness of software cannot ensure the safe operation of safety-critical software systems. Therefore, developing safety-critical software requires a more systematic software and safety engineering process that enables the software and safety engineers to recognize the potential software risks. For this purpose, this dissertation introduces a comprehensive safety engineering approach based on STPA for Software-Intensive Systems, called STPA SwISs, which provides seamless STPA safety analysis and software safety verification activities to allow the software and safety engineers to work together during the software development for safety-critical systems and help them to recognize the associated software risks at the system level.

**Software Safety and Reliability** Debra S. Herrmann.1999 The role of software has changed from simply generating financial or mechanical data to monitoring and controlling equipment that directly affects human life and safety. As a result, a more thorough understanding and familiarity with the specialized techniques used to achieve and assess the safety and reliability of software is needed in academia, industry, and government. This original text introduces the concepts, techniques, and approaches used to achieve and assess software safety and reliability. Debra Herrmann presents a cross-section of current safety and reliability standards that cross multiple industrial sectors while focusing on the additional required activities to achieve software safety and reliability. In organizing this text, she has three objectives. The first is to raise the reader's awareness on the importance of software safety and reliability and on its role in mission critical systems by presenting many illustrative, ever day examples. The second objective is to provide practical information about the current methods used to achieve and assess software safety and reliability. The final objective is to improve the understanding and practice of software safety and reliability by consolidating the latest research so that it can be compared and analyzed for the future. The book is written for engineers, scientists, managers, regulators, and policy makers involved in the design, development, acquisition, and certification of safety-critical systems.

**SAFe® 4.0 Reference Guide** Dean Leffingwell.2016-07-29 The Must-have Reference Guide for SAFe® Practitioners “There are a lot of methods of scale out there, but the Scaled Agile Framework is the one lighting up the world.” -Steve Elliot, Founder/CEO AgileCraft “You don’t have to be perfect to start SAFe because you learn as you go-learning is built in. Before SAFe, I would not know how to help my teams but now I have many tools to enable the teams. My job is really fun and the bottom line is I have never enjoyed my job more!” -Product Manager, Fortune 500 Enterprise Captured for the first time in print, the SAFe body of knowledge is now available as a handy desktop reference to help you accomplish your mission of building better software and systems. Inside, you’ll find complete coverage of what has, until now, only been available online at scaledagileframework.com. The SAFe knowledge base was developed from real-world field experience and provides proven success patterns for implementing Lean-Agile software and systems development at enterprise scale. This book provides comprehensive guidance for work at the enterprise Portfolio, Value Stream, Program, and Team levels, including the various roles, activities, and artifacts that constitute the Framework, along with the foundational elements of values, mindset, principles, and practices. Education & Training Key to Success The practice of SAFe is spreading rapidly throughout the world. The majority of Fortune 100 U.S. companies have certified SAFe practitioners and consultants, as do an increasing percentage of the Global 1000 enterprises. Case study results-visit scaledagileframework.com/case-studies-typically include: 20–50% increase in productivity 50%+ increases in quality 30–75% faster time to market Measurable increases in employee engagement and job satisfaction With results like these, the demand from enterprises seeking SAFe expertise is accelerating at a dramatic rate. Successful implementations may vary in context, but share a common attribute: a workforce well trained and educated in SAFe practices. This book-along with authorized training and certification-will help you understand how to maximize the value of your role within a SAFe organization. The result is greater alignment, visibility, improved performance throughout the enterprise, and ultimately better outcomes for the business.

**Agile Approaches on Large Projects in Large Organizations** Brian Hobbs,Yvan Petit.2017-07-25 Creativity and productivity, rapid adaptation to change, value for the customer—these are just some of the advantages of implementing agile practices in project work. However, agile practices have been most widely and successfully undertaken in the context of small, colocated teams working on small software projects, known as the agile sweet spot. In this monograph, Brian Hobbs and Yvan Petit explore the use and impact of agile outside of the agile sweet spot. Through a case study and survey questionnaire, they uncover research questions that have remained largely unexamined in the literature, on the project level as well as on the organizational level, namely: •What challenges are encountered when applying agile approaches to large, multi-team software projects and what practices have been developed to alleviate these challenges? •How does the context of large, complex organizations affect the adaptation and adoption of agile approaches and vice versa? An illuminating study of this emerging field, *Agile Approaches on Large Projects in Large Organizations* opens the door to further investigation on the future role of project managers, the use of scaling frameworks at the program and portfolio levels, and the effects of DevOps, one of the recent trends in agile software development.

**Lean UX** Jeff Gothelf,Josh Seiden.2016-09-12 UX design has traditionally been deliverables-based. Wireframes, site maps, flow diagrams, content inventories, taxonomies, mockups helped define the practice in its infancy.Over time, however, this deliverables-heavy process has put UX designers in the deliverables business. Many are now measured and compensated for the depth and breadth of their deliverables instead of the quality and success of the experiences they design. Designers have become documentation subject matter experts, known for the quality of the documents they create instead of the end-state experiences being designed and developed.So what's to be done? This practical book provides a roadmap and set of practices and principles that will help you keep your focus on the the experience back, rather than the deliverables. Get a tactical understanding of how to successfully integrate Lean and UX/Design; Find new material on business modeling and outcomes to help teams work more strategically; Delve into the new chapter on experiment design and Take advantage of updated examples and case studies.

**The Agile Safety Case** Thor Myklebust,Tor Stålhane.2018-01-29 The safety case (SC) is one of the railway industry’s most important deliverables for creating confidence in their systems. This is the first book on how to write an SC, based on the standard EN 50129:2003. Experience has shown that preparing and understanding an SC is difficult and time consuming, and as such the book provides insights that enhance the training for writing an SC. The book discusses both regular safety cases and agile safety cases, which avoid too much documentation, improve communication between the stakeholders, allow quicker approval of the system, and which are important in the light of rapidly changing technology. In addition, it discusses the necessity of frequently updating software due to market requirements, changes in requirements and increased cyber-security threats. After a general introduction to SCs and agile thinking in chapter 1, chapter 2 describes the majority of the roles that are relevant when developing railway-signaling systems. Next, chapter 3 provides information related to the assessment of signaling systems, to certifications based on IEC 61508 and to the authorization of signaling systems. Chapter 4 then explains how an agile safety plan satisfying the requirements given in EN 50126-1:1999 can be developed, while chapter 5 provides a brief introduction to safety case patterns and notations. Lastly, chapter 6 combines all this and describes how an (agile) SC can be developed and what it should include. To ensure that infrastructure managers, suppliers, consultants and others can take full advantage of the agile mind-set, the book includes concrete examples and presents relevant agile practices. Although the scope of the book is limited to signaling systems, the basic foundations for (agile) SCs are clearly described so that they can also be applied in other cases.

**Agile Methods for Safety-Critical Systems** Nancy Van Schooenderwoert,Brian Shoemaker.2018-06-04 This book, packed with real-world insights and direct experiences, is for managers who want the benefits of Agile but also must address regulatory compliance, integration of software with other disciplines, and product safety. In it, we combine our understanding of Agile development, hardware/software integration, and regulatory requirements. We know that Agile is simple but not easy; leadership is crucial to make this change spread. We aim to show how you can navigate the transition.

*The 2021 Yearbook of the Digital Ethics Lab* Jakob Mökander,Marta Ziosi.2022-11-07 This annual edited volume explores a wide range of topics in digital ethics and governance. Included are chapters that: analyze the opportunities and ethical challenges posed by digital innovation; delineate new approaches to solve them; and offer concrete guidance on how to govern emerging technologies. The contributors are all members of the Digital Ethics Lab (the DELab) at the Oxford Internet Institute, a research environment that draws on a wide range of academic traditions. Collectively, the chapters of this book illustrate how the field of digital ethics - whether understood as an academic discipline or an area of practice - is undergoing a process of maturation. Most importantly, the focus of the discourse concerning how to design and use digital technologies is increasingly shifting from ‘soft ethics’ to ‘hard governance’. Then, there is the trend in the ongoing shift from ‘what’ to ‘how’, whereby abstract or ad-hoc approaches to AI governance are giving way to more concrete and systematic solutions. The maturation of the field of digital ethics has, as this book attempts to show, been both accelerated and illustrated by a series of recent events. This text thereby takes an important step towards defining and implementing feasible and effective approaches to digital governance. It appeals to students, researchers and professionals in the field.

**SAFe 4.0 Distilled** Richard Knaster,Dean Leffingwell.2017-04-04 SAFe®: The World’s Leading Framework for Enterprise Agility “SAFe® 4.0 Distilled is the book we’ve all been waiting for. It breaks down the complexity of the Framework into easily digestible explanations and actionable guidance. A must-have resource for beginners as well as seasoned practitioners.” —Lee Cunningham, Sr. Director, Enterprise Agile Strategy at VersionOne, Inc. To succeed in today’s adapt-or-die marketplace, businesses must be able to rapidly change the way they create and deliver value to their customers. Hundreds of the world’s most successful companies—including Hewlett Packard Enterprise, AstraZeneca, Cisco, and Philips—have turned to the Scaled Agile Framework® (SAFe®) to achieve agility at scale and maintain a competitive edge. SAFe® 4.0 Distilled: Applying the Scaled Agile Framework® for Lean Software and Systems Engineering explains how adopting SAFe can quickly improve time to market and increase productivity, quality, and employee engagement. In this book, you will Understand the business case for SAFe: its benefits, the problems it solves, and how to apply it Get an overview of SAFe across all parts of the business: team, program, value stream, and portfolio Learn why SAFe works: the power of SAFe’s Lean-Agile mindset, values, and principles Discover how systems thinking, Agile development, and Lean product development form the underlying basis for

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*Agile Software Requirements* Dean Leffingwell.2010-12-27 “We need better approaches to understanding and managing software requirements, and Dean provides them in this book. He draws ideas from three very useful intellectual pools: classical management practices, Agile methods, and lean product development. By combining the strengths of these three approaches, he has produced something that works better than any one in isolation.” -From the Foreword by Don Reinertsen, President of Reinertsen & Associates; author of *Managing the Design Factory*; and leading expert on rapid product development Effective requirements discovery and analysis is a critical best practice for serious application development. Until now, however, requirements and Agile methods have rarely coexisted peacefully. For many enterprises considering Agile approaches, the absence of effective and scalable Agile requirements processes has been a showstopper for Agile adoption. In *Agile Software Requirements*, Dean Leffingwell shows exactly how to create effective requirements in Agile environments. Part I presents the “big picture” of Agile requirements in the enterprise, and describes an overall process model for Agile requirements at the project team, program, and portfolio levels Part II describes a simple and lightweight, yet comprehensive model that Agile project teams can use to manage requirements Part III shows how to develop Agile requirements for complex systems that require the cooperation of multiple teams Part IV guides enterprises in developing Agile requirements for ever-larger “systems of systems,” application suites, and product portfolios This book will help you leverage the benefits of Agile without sacrificing the value of effective requirements discovery and analysis. You’ll find proven solutions you can apply right now—whether you’re a software developer or tester, executive, project/program manager, architect, or team leader.

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