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2023-08-28

POTTS PRESTON

Functional Safety and

Proof of Compliance

epubli

Cyber-physical systems

(CPSs) consist of software-controlled computing devices communicating with each other and interacting with the physical world through sensors and actuators. Because most of the functionality of a CPS is implemented in software, the software is of crucial importance for the safety and security of the CPS. This book presents principle-based engineering for the development and operation of dependable software. The knowledge in this book addresses

organizations that want to strengthen their methodologies to build safe and secure software for mission-critical cyber-physical systems. The book: • Presents a successful strategy for the management of vulnerabilities, threats, and failures in mission-critical cyber-physical systems; • Offers deep practical insight into principle-based software development (62 principles are introduced and cataloged into five categories: Business & organization, general

principles, safety, security, and risk management principles); • Provides direct guidance on architecting and operating dependable cyber-physical systems for software managers and architects.

Scrum For Dummies

Springer

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 introduction 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.

Safety and Reliability. Theory and Applications Springer

“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. [SAFe® Coaches Handbook](#) Packt

Publishing Ltd
"Leadership in SAFe: A Guide for Managers and Agile Coaches" by Gabriel M. Silverstein is a comprehensive and engaging guide that addresses the critical role of leadership in the success of agile transformation within the Scaled Agile Framework (SAFe). This insightful book delves deep into how leadership is not just about authority, but more about supporting and providing opportunities, especially in the context of 'servant leadership'.

Silverstein emphasizes the importance of leaders who can internalize the principles and values of SAFe, and how their role is crucial in establishing a culture of innovation and continuous improvement. The book is particularly tailored for a diverse audience, including existing managers in a SAFe environment and those contemplating its introduction in their organizations. Providing practical guidance and strategies, this book is an essential tool for leaders aiming to support and

lead agile teams effectively. It covers various aspects of leadership within the agile development context, including servant leadership principles, decision-making, communication, collaboration, change management, and measurement and control. Real-world examples and case studies are integrated to ensure the ideas and strategies are relatable and implementable. "Leadership in SAFe" is more than just a

theoretical exploration; it's a practical guide to navigating the complex landscape of agile transformation in today's fast-evolving business world. It aims to bridge the gap between the theoretical underpinnings of the SAFe framework and its practical application in a business setting, making it an indispensable resource for anyone committed to implementing SAFe principles in their leadership practices. This book not only equips its readers with the

necessary knowledge and skills to manage the challenges of agile transformation but also serves as a catalyst for implementing the acquired knowledge in real-world scenarios. *Future-Proof Software-Systems* Springer SAFe®: The World's Leading Framework for Enterprise Agility "Philips is continuously driving to develop high-quality software in a predictable, fast, and Agile way. SAFe addresses this primary goal, and offers these further benefits: reduced

time-to-market, improved quality, stronger alignment across geographically distributed multi-disciplinary teams, and collaboration across teams to deliver meaningful value to customers with reduced cycle time." —Sundaresan Jagadeesan, SW CoE Program Director, Philips 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 Intel, Capital One, AstraZeneca, Cisco, and Philips—have turned to the Scaled Agile Framework® (SAFe®) to achieve agility at scale and maintain a competitive edge. SAFe® 4.5 Distilled: Applying the Scaled Agile Framework® for Lean Enterprises 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 SAFe Learn how to become a Lean-Agile leader and effectively drive an enterprise-wide transformation Register your book for convenient

access to downloads, updates, and/or corrections as they become available. See inside book for details. **Agile Processes in Software Engineering and Extreme Programming** CRC Press This is a book about the development of dependable, embedded software. It is for systems designers, implementers, and verifiers who are experienced in general embedded software development, but who are now facing the prospect of delivering a software-

based system for a safety-critical application. It is aimed at those creating a product that must satisfy one or more of the international standards relating to safety-critical applications, including IEC 61508, ISO 26262, EN 50128, EN 50657, IEC 62304, or related standards. Of the first edition, Stephen Thomas, PE, Founder and Editor of FunctionalSafetyEngineer.com said, "I highly recommend Mr. Hobbs' book."

SAFe 5.0 Distilled
Addison-Wesley

Professional
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.

Embedded Software Development for Safety-Critical Systems, Second Edition Pearson Education

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.

Get SAFe Now Addison-Wesley Professional 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.

SAFe ? Das Scaled Agile Framework Apress

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. SAFe 6.0 "O'Reilly Media, Inc." 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.

SAFe 4.5 Distilled

Addison-Wesley Professional
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.

Scrum and XP from the Trenches Springer Nature

The Agile Teams have proven to be promising alternatives to traditional

software development team structures. However, when the big enterprises tried to apply agile frameworks such as Scrum and Extreme Programming for large efforts where hundreds of cross functional teams were working on a group of dependent products and services, several questions arose. The questions involved many aspects of the traditional enterprise ecosystem such as the scaling agile practices for large development efforts, alignment to organization

strategies, the role of organization management, the role of support teams, and the alignment of organization portfolio and program management. SAFe was born in response to such questions and needs of the companies that tried to take the small and effective Agile Teams from working in pockets to large development efforts. The usual way to know about SAFe is to start with the Scaled Agile website. All the elements of SAFe are captured in one single 'Big Picture' at

<http://www.scaledagileframework.com>. It looks structured and neatly defined. However, due to its size, new terminologies, and multiple perspectives, first round of introduction or training is bit overwhelming to the receivers. The 'Big Picture' is too detailed with little narrative coherence. Before exploring the 'Big Picture' or going into every tiny detail of SAFe, it is beneficial to get a quick and lightweight narrative of SAFe. This book

attempts to help those looking for a quick introduction of most valuable elements of SAFe. It narrates the concepts in simple terms. It uses plenty of visuals to drive the concepts. It provides real world examples wherever needed. It uses Active Learning which refers to not just passive reading of the content, but taking frequent pauses to answer questions about what was just read, and then thinking, analyzing, and inferring the meaning through answering those

questions.
Large-Scale Scrum CRC Press
Stand out from the pack by efficiently preparing for SAFe SA Agilist 6.0 certification! This premium learning guide book provides you with rich knowledge, real-world examples, and useful activities to help you enhance your agile abilities. Please keep in mind that this is a stand-alone publication not endorsed by SAFe. Scaled Agile, Inc. owns the registered trademarks SAFe® and Scaled Agile

Frameworks®. The ® has not been repeated in the text or title to improve readability.
SAFe® for DevOps Practitioners IT Revolution
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.
Safety and Security of

Cyber-Physical Systems
Addison-Wesley Professional
Are you ready to create a one team culture? Tribal Unity is a real world, practical guide for leaders committed to making their organisation a great place to work. Based in the true story of how one inspiring leader transformed a highly toxic organisational culture, into an internationally recognised case study of success. Tribal Unity shares proven patterns that are revolutionising the way teams of teams

connect and perform. Em Campbell-Pretty is an internationally acclaimed business strategist, speaker and one of Australia's leading Enterprise Agile consultants. After 20 years in senior business roles within multinational blue chip corporations, Em discovered Agile and became passionate about the chance it provides to align business and IT around the delivery of value. Today Em is instrumental in empowering Australia's largest enterprises in

improving the effectiveness of their teams.

Product-Focused Software Process Improvement

Springer Nature

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.

SAFe 4.0 Reference Guide

Addison-Wesley

Professional

This book constitutes the proceedings of the 17th International Conference

on Product-Focused Software Process Improvement, PROFES 2016, held in Trondheim, Norway, in November 2016. The 24 revised full papers presented together with 21 short papers, 1 keynote, 3 invited papers, 5 workshop papers. 2 doctoral symposium papers, and 6 tutorials were carefully reviewed and selected from 82 submissions. The papers are organized in topical sections on Early Phases in Software Engineering; Organizational Models;

Architecture; Methods and Tools; Verification and Validation; Process Improvement; Speed and Agility in System Engineering; Requirements and Quality; Process and Repository Mining; Business Value and Benefits; Emerging Research Topics; and Future of Computing. *Agile Project Management with Azure DevOps* Lulu.com

This book aims to give you a head start by providing a detailed down-to-earth account of

how one Swedish company implemented Scrum and XP with a team of approximately 40 people and how they continuously improved their process over a year's time. Covering: Practical tips and tricks for most Scrum and XP practices. Typical pitfalls and how they were addressed. Diagrams and photos illustrating day-to-day work. Testing and test-driven development. Scaling and coordinating multiple teams. Dealing with resistance from inside and outside the

team. Planning and time estimation techniques SafeScrum® - Agile Development of Safety-Critical Software Lulu.com 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.