

Kristian Beckers

Pattern and Security Requirements

Engineering-Based Establishment of
Security Standards

 Springer

Pattern And Security Requirements Engineering Based Establishment Of Security Standards

**Anshari, Muhammad,Almunawar,
Mohamad Nabil,Masri, Masairol**



Pattern And Security Requirements Engineering Based Establishment Of Security Standards:

Pattern and Security Requirements Kristian Beckers, 2015-04-15 Security threats are a significant problem for information technology companies today This book focuses on how to mitigate these threats by using security standards and provides ways to address associated problems faced by engineers caused by ambiguities in the standards The security standards are analysed fundamental concepts of the security standards presented and the relations to the elementary concepts of security requirements engineering SRE methods explored Using this knowledge engineers can build customised methods that support the establishment of security standards Standards such as Common Criteria or ISO 27001 are explored and several extensions are provided to well known SRE methods such as Si CORAS and UML4PF to support the establishment of these security standards Through careful analysis of the activities demanded by the standards for example the activities to establish an Information Security Management System ISMS in compliance with the ISO 27001 standard methods are proposed which incorporate existing security requirement approaches and patterns Understanding Pattern and Security Requirements engineering methods is important for software engineers security analysts and other professionals that are tasked with establishing a security standard as well as researchers who aim to investigate the problems with establishing security standards The examples and explanations in this book are designed to be understandable by all these readers

Fundamentals of Secure System Modelling Raimundas Matulevičius, 2017-08-17 This book provides a coherent overview of the most important modelling related security techniques available today and demonstrates how to combine them Further it describes an integrated set of systematic practices that can be used to achieve increased security for software from the outset and combines practical ways of working with practical ways of distilling managing and making security knowledge operational The book addresses three main topics 1 security requirements engineering including security risk management major activities asset identification security risk analysis and defining security requirements 2 secure software system modelling including modelling of context and protected assets security risks and decisions regarding security risk treatment using various modelling languages and 3 secure system development including effective approaches pattern driven development and model driven security The primary target audience of this book is graduate students studying cyber security software engineering and system security engineering The book will also benefit practitioners interested in learning about the need to consider the decisions behind secure software systems Overall it offers the ideal basis for educating future generations of security experts

Product-Focused Software Process Improvement Maurizio Morisio, Marco Torchiano, Andreas Jedlitschka, 2020-11-20 This book constitutes the refereed proceedings of the 21st International Conference on Product Focused Software Process Improvement PROFES 2020 held in Turin Italy in November 2020 Due to COVID 19 pandemic the conference was held virtually The 19 revised full papers and 3 short papers presented were carefully reviewed and selected from 68 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 Agile Software Development

FinTech Development for Financial Inclusiveness Anshari, Muhammad, Almunawar, Mohamad Nabil, Masri, Masairol, 2021-11-26 Financial technology FinTech and its related products are considered a major disruptive innovation in financial services substantially elevating financial solutions and new business models Resulting from the fusion of finance and smart mobile technology this innovative technology requires additional investigation into its adoption challenges opportunities and future directions so that we may understand and develop the technology to its full potential FinTech Development for Financial Inclusiveness moves beyond the theoretical areas of FinTech to comprehensively explore the recent FinTech initiative scenarios with respect to processes strategies challenges lessons learned and outcomes within economic development as well as trade and investment Covering a range of topics such as decentralized finance and global electronic commerce it is ideal for industry professionals business owners consultants practitioners instructors researchers academicians and students

Software Engineering for Secure Systems: Industrial and Research Perspectives Mouratidis, H., 2010-10-31 This book provides coverage of recent advances in the area of secure software engineering that address the various stages of the development process from requirements to design to testing to implementation Provided by publisher

Contemporary Complex Systems and Their Dependability Wojciech Zamojski, Jacek Mazurkiewicz, Jarosław Sugier, Tomasz Walkowiak, Janusz Kacprzyk, 2018-05-26 This book presents the proceedings of the Thirteenth International Conference on Dependability and Complex Systems DepCoS RELCOMEX which took place in the Brun w Palace in Poland from 2nd to 6th July 2018 The conference has been organized at the Faculty of Electronics Wroc aw University of Science and Technology since 2006 and it continues the tradition of two other events RELCOMEX 1977 89 and Microcomputer School 1985 95 The selection of papers in these proceedings illustrates the broad variety of topics that are investigated in dependability analyses of today s complex systems Dependability came naturally as a contemporary answer to new challenges in the reliability evaluation of these systems Such systems cannot be considered only as structures however complex and distributed built on the basis of technical resources hardware their analysis must take into account a unique blend of interacting people their needs and behaviours networks together with mobile properties cloud based systems and a large number of users dispersed geographically and producing an unimaginable number of applications working online A growing number of research methods apply the latest advances in artificial intelligence AI and computational intelligence CI Today s complex systems are really complex and are applied in numerous different fields of contemporary life

The CSSLP Prep Guide Ronald L. Krutz, Alexander J. Fry, 2009-08-24 The first test prep guide for the new ISC2 Certified Secure Software Lifecycle Professional exam The CSSLP Certified Secure Software Lifecycle Professional is a new certification that incorporates government standards and best practices for secure software development It emphasizes the application of secure software methodologies during the software development cycle If you re an IT

professional security professional software developer project manager software assurance tester executive manager or employee of a government agency in a related field your career may benefit from this certification Written by experts in computer systems and security The CSSLP Prep Guide thoroughly covers all aspects of the CSSLP certification exam with hundreds of sample test questions and answers available on the accompanying CD The Certified Secure Software Lifecycle Professional CSSLP is an international certification incorporating new government commercial and university derived secure software development methods it is a natural complement to the CISSP credential The study guide covers the seven domains of the CSSLP Common Body of Knowledge CBK namely Secure Software Concepts Secure Software Requirements Secure Software Design and Secure Software Implementation Coding and Testing Secure Software Testing Software Acceptance and Software Deployment Operations Maintenance and Disposal Provides in depth exploration and explanation of the seven CSSLP domains Includes a CD with hundreds of practice exam questions and answers The CSSLP Prep Guide prepares you for the certification exam and career advancement

Pattern and Security Requirements Reynaldo Ballard, 2017-04-12 Security threats are a significant problem for information technology companies today This book focuses on how to mitigate these threats by using security standards and provides ways to address associated problems faced by engineers caused by ambiguities in the standards The security standards are analysed fundamental concepts of the security standards presented and the relations to the elementary concepts of security requirements engineering SRE methods explored Using this knowledge engineers can build customised methods that support the establishment of security standards

Foundations of Security Analysis and Design ,2004 Proceedings of the ... ACM Workshop on Secure Web Services ,2005 **Progress in Informatics** ,2008 Requirements Engineering and Rapid Development Ian Graham, 1998 Presents a practical object oriented modelling approach that provides software developers with a single technique with which to model all aspects of the modern business from the organizational mission right through to user performance and business objectives

Information Security and Ethics Hamid R. Nemati, 2008 This compilation serves as the ultimate source on all theories and models associated with information privacy and safeguard practices to help anchor and guide the development of technologies standards and best practices to meet these challenges Provided by publisher

Proceedings , Standards, Guidelines, and Examples on System and Software Requirements Engineering Merlin Dorfman, Richard H. Thayer, 1990 **IEEE Joint International Conference on Requirements Engineering** ,2002 This text contains information on software design and development as presented at the 10th Anniversary IEEE Joint International Requirements Engineering RE 2002

Ramsey/Sleeper Architectural Graphic Standards ,2000 Journal of Object-oriented Programming ,1999

Proceedings of ... ACM Symposium on Access Control Models and Technologies ,2003 2002 Long Range Development Plan: Volumes 1 & 2 text changes and responses to comments ,2003

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