

Klaus Pohl

Requirements Engineering

Fundamentals, Principles and Techniques

Second Edition

 Springer

Requirements Engineering Fundamentals Principles And Techniques 1st Edition

Maya Daneva, Oscar Pastor



Requirements Engineering Fundamentals Principles And Techniques 1st Edition:

Requirements Engineering: Foundation for Software Quality Paul Grünbacher, Anna Perini, 2017-02-20 This book constitutes the proceedings of the 23rd International Working Conference on Requirements Engineering Foundation for Software Quality REFSQ 2017 held in Essen Germany in February March 2017 The 16 full papers and 10 short papers presented in this volume were carefully reviewed and selected from 77 submissions The papers were organized in topical sections named use case models ecosystems and innovation human factors in requirements engineering goal orientation in requirements engineering communication and collaboration process and tool integration visualization and representation of requirements agile requirements engineering natural language processing information retrieval and machine learning traceability quality of natural language requirements research methodology in requirements engineering **Generic Systems Engineering** Nadine Schlüter, 2023-12-28 The 3rd edition is dedicated to the increased requirements for sustainability and picks up on the higher dynamics as a result of agile system development which is widespread today The application of the methods to technical systems is also extended to include socio technical systems The work provides a historical outline of development trends in systems engineering SE up to the present Included is a systematic examination of the various models and procedural concepts of SE Based on this the Generic Systems Engineering GSE is developed consisting of a new meta model which can be combined with a project management integrated process concept in a problem solving oriented manner and can be permanently updated or supplemented Eight test examples show possible fields of application of the GSE which range from virtual product development to field data feedback into it Furthermore examples for the transfer of GSE to socio technical systems i e companies and company networks are presented **Seminal Contributions to Information Systems Engineering** Janis Bubenko, John Krogstie, Oscar Pastor, Barbara Pernici, Colette Rolland, Arne Sølvberg, 2013-06-13 In 2013 the International Conference on Advance Information Systems Engineering CAiSE turns 25 Initially launched in 1989 for all these years the conference has provided a broad forum for researchers working in the area of Information Systems Engineering To reflect on the work done so far and to examine prospects for future work the CAiSE Steering Committee decided to present a selection of seminal papers published for the conference during these years and to ask their authors all prominent researchers in the field to comment on their work and how it has developed over the years The scope of the papers selected covers a broad range of topics related to modeling and designing information systems collecting and managing requirements and with special attention to how information systems are engineered towards their final development and deployment as software components With this approach the book provides not only a historical analysis on how information systems engineering evolved over the years but also a fascinating social network analysis of the research community Additionally many inspiring ideas for future research and new perspectives in this area are sparked by the intriguing comments of the renowned authors *Requirements Engineering: Foundation for Software Quality* Nazim

Madhavji,Liliana Pasquale,Alessio Ferrari,Stefania Gnesi,2020-03-18 This book constitutes the proceedings of the 26th International Working Conference on Requirements Engineering Foundation for Software Quality REFSQ 2020 which was due to be held in Pisa Italy in March 2020 Due to the COVID 19 pandemic the conference was held virtually in June 2020 The 14 full papers and 7 short papers in this volume were carefully reviewed and selected from 84 submissions The papers are organized in the following topical sections requirements specification requirements documentation privacy and legal requirements stakeholders feedback and training agile methods and requirements comprehension requirements modelling requirements visualization

Model-Based System Architecture Marco Forlingieri,Jesko G. Lamm,Stephan Roth,Markus Walker,2022-04-05 MODEL BASED SYSTEM ARCHITECTURE AN UP TO DATE EXPLORATION OF THE NEWEST STANDARDS AND BEST PRACTICES IN SYSTEM ARCHITECTING In the newly revised Second Edition of Model Based System Architecture a team of expert engineers deliver a detailed and authoritative review of the practice of system architecture in organizations that use models to support the systems engineering process In the book readers will find introductions to the fundamentals of architecting systems and using models to assist the architecting process The latest edition offers refreshed content based on ISO 15288 2015 and a renewed focus on the role of the system architect New chapters on systems of systems and cyber physical systems and system architect tools offer guidance to practicing professionals on how to apply the presented concepts in the real world In addition to the latest definitions of the architecture governance and evaluation processes described in ISO 42020 and 42030 the book provides A thorough introduction to the value of systems architecting definitions of system architecture and model based system architecture Comprehensive explorations of model governance architecture descriptions patterns and principles and the roles of typical architecture stakeholders Practical discussions of Agile approaches to systems architecture the FAS Method and architecture frameworks In depth examinations of systems architecting work and necessary soft skills for systems architects Modeling of system architectures with SysML including a brief overview of SysML v1 and an outlook to SysML v2 Perfect for system architects and system engineers Model Based System Architecture will also earn a place in the libraries of students and researchers studying functional architectures

Model-Based System Architecture Marco Forlingieri,Jesko G. Lamm,Stephan Roth,Markus Walker,2015-10-26 Presents modeling approaches that can be performed in SysML and other modeling languages This book combines the emerging discipline of systems architecting with model based approaches using SysML The early chapters of the book provide the fundamentals of systems architecting discussing what systems architecting entails and how it benefits systems engineering Model based systems engineering is then defined and its capabilities to develop complex systems on time and in a feasible quality are discussed The remainder of the book covers important topics such as architecture descriptions architecture patterns perspectives viewpoints views and their relation to system architecture the roles of a system architect their team and stakeholders systems architecting processes agile approaches to systems

architecting variant modeling techniques architecture frameworks and architecture assessment The book's organization allows experts to read the chapters out of sequence Novices can read the chapters sequentially to gain a systematic introduction to system architecting Model Based System Architecture Provides comprehensive coverage of the Functional Architecture for Systems FAS method created by the authors and based on common MBSE practices Covers architecture frameworks including the System of Systems Zachman Frameworks TOGAF and more Includes a consistent example system the Virtual Museum Tour system that allows the authors to demonstrate the systems architecting concepts covered in the book Model Based System Architecture is a comprehensive reference for system architects and systems engineers in technology companies This book will also serve as a reference to students and researchers interested in functional architectures Tim Weilkiens is the CEO at the German consultancy oose Innovative Informatik and co author of the SysML specification He has introduced model based systems engineering to a variety of industry sectors He is author of several books about modeling and the MBSE methodology SYSMOD Jesko G Lamm is a Senior Systems Engineer at Bernafon a Swiss manufacturer for hearing instruments With Tim Weilkiens Jesko G Lamm founded the Functional Architectures working group of the German chapter of INCOSE Stephan Roth is a coach consultant and trainer for systems and software engineering at the German consultancy oose Innovative Informatik He is a state certified technical assistant for computer science from Physikalisch Technische Lehranstalt PTL Wedel and a certified systems engineer GfSE Level C Markus Walker works at Schindler Elevator in the research and development division as elevator system architect He is an INCOSE Certified Systems Engineering Professional CSEP and is engaged in the committee of the Swiss chapter of INCOSE

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

Exploring Services Science Theodor Borangiu, Monica Drăgoicea, Henriqueta Nóvoa, 2016-05-18 This book contains the refereed proceedings of the 7th International Conference on Exploring Service Science IESS held in Bucharest Romania in May 2016 Service science constitutes an interdisciplinary approach to systematic innovation in service systems integrating managerial social legal and engineering aspects to address the theoretical and practical challenges of the service industry and its economy The 45 full papers and 13 short papers accepted for IESS were selected from 119 submissions The papers consider the topics service exploration theories and processes modeling service requirements and management of business processes value co creation through knowledge management and user centric services service design methodologies and patterns service innovation and strategy IT based service engineering servitization in sustainable manufacturing product service systems business software services and data driven service design web service design and service oriented agents IoT and mobile apps for public transport service management e health services and medical data interoperability and service and IT oriented learning and education systems

Product-Focused Software Process Improvement

Dietmar Pfahl, Javier Gonzalez Huerta, Jil Klünder, Hina Anwar, 2024-12-01 This book constitutes the refereed proceedings of the 25th International Conference on Product Focused Software Process Improvement PROFES 2024 held in Tartu Estonia during December 2 4 2024 The 18 full papers 12 short papers 9 Industry papers 2 Workshop papers 2 Doctoral symposium papers and one Keynote paper presented in this volume were carefully reviewed and selected from 85 submissions The main theme of PROFES 2024 was professional software process improvement SPI motivated by product process and service quality needs The technical program of PROFES 2024 was selected by a committee of leading experts in software process improvement software process modeling and empirical software engineering

Data and Information in Online Environments

Adilson Luiz Pinto, Ricardo Arencibia-Jorge, 2022-12-16 This book constitutes the refereed post conference proceedings of the Third EAI International Conference on Data and Information in Online Environments DIONE 2022 held as virtual event in July 28 29 2022 Due to COVID 19 pandemic the conference was held virtually DIONE 2022 aims to bring together academicians and practitioners willing to discuss topics around the intersection of Computer Science Information Science and Communication Science The attractiveness of the scope and topics has brought relevant research results This proceeding consists of chapters covering deep learning data management software design social networks natural language processing and data processing in various contexts like scholarly publishing health and medicine higher education innovation and research energy and transportation and organizations The 18 full papers and 2 short papers were carefully reviewed and selected from 56 submissions The papers are grouped in thematic sessions as follows Informational challenges for the study of Science Technology and Society relationships and Advances in Artificial Intelligence for data processing and analysis in online social environments

Advances in Web-Based Learning - ICWL 2019

Michael A. Herzog, Zuzana Kubincová, Peng Han, Marco Temperini, 2019-11-15 This book constitutes the proceedings of the 18th International

Conference on Advances in Web Based Learning ICWL 2019 held in Magdeburg Germany in September 2019 The 15 full 15 short and 7 poster papers presented in this volume were carefully reviewed and selected from 68 submissions The contributions were organized in topical sections named Semantic Web for E Learning Learning Analytics Computer Supported Collaborative Learning Assessment and Pedagogical Issues E learning Platforms and Tools Mobile Learning and Poster Papers

Proceedings of the Future Technologies Conference (FTC) 2018 Kohei Arai,Rahul Bhatia,Supriya Kapoor,2018-10-19 The book presenting the proceedings of the 2018 Future Technologies Conference FTC 2018 is a remarkable collection of chapters covering a wide range of topics including but not limited to computing electronics artificial intelligence robotics security and communications and their real world applications The conference attracted a total of 503 submissions from pioneering researchers scientists industrial engineers and students from all over the world After a double blind peer review process 173 submissions including 6 poster papers have been selected to be included in these proceedings FTC 2018 successfully brought together technology geniuses in one venue to not only present breakthrough research in future technologies but to also promote practicality and applications and an intra and inter field exchange of ideas In the future computing technologies will play a very important role in the convergence of computing communication and all other computational sciences and applications And as a result it will also influence the future of science engineering industry business law politics culture and medicine Providing state of the art intelligent methods and techniques for solving real world problems as well as a vision of the future research this book is a valuable resource for all those interested in this area

Formal Methods - The Next 30 Years Maurice H. ter Beek,Annabelle McIver,José N. Oliveira,2019-09-23 This book constitutes the refereed proceedings of the 23rd Symposium on Formal Methods FM 2019 held in Porto Portugal in the form of the Third World Congress on Formal Methods in October 2019 The 44 full papers presented together with 3 invited presentations were carefully reviewed and selected from 129 submissions The papers are organized in topical sections named Invited Presentations Verification Synthesis Techniques Concurrency Model Checking Circus Model Checking Analysis Techniques Specification Languages Reasoning Techniques Modelling Languages Learning Based Techniques and Applications Refactoring and Reprogramming I Day Presentations

Evaluation of Novel Approaches to Software Engineering Ernesto Damiani,George Spanoudakis,Leszek A. Maciaszek,2020-02-08 This book constitutes selected revised and extended papers of the 14th International Conference on Evaluation of Novel Approaches to Software Engineering ENASE 2019 held in Heraklion Crete Greece in May 2019 The 19 revised full papers presented were carefully reviewed and selected from 102 submissions The papers included in this book contribute to the understanding of relevant trends of current research on novel approaches to software engineering for the development and maintenance of systems and applications specically with relation to model driven software engineering requirements engineering empirical software engineering service oriented software engineering business process management and engineering knowledge management and

engineering reverse software engineering software process improvement software change and configuration management software metrics software patterns and refactoring application integration software architecture cloud computing and formal methods **Advances in Enterprise Engineering VII** Henderik A. Proper, David Aveiro, Khaled Gaaloul, 2013-11-18 This book constitutes the proceedings of the Third Enterprise Engineering Working Conference EEWC held in Luxembourg during May 13 14 2013 EEWC aims at addressing the challenges that modern and complex enterprises are facing in a rapidly changing world The participants of the working conference share a belief that dealing with these challenges requires rigorous and scientific solutions focusing on the design and engineering of enterprises The goal of EEWC is to stimulate interaction between the different stakeholders scientists as well as practitioners interested in making enterprise engineering a reality The eight papers presented at the conference were carefully reviewed and selected for inclusion in the book EEWC 2013 had 24 submissions and accepted eight for publication The topics of the presented papers allowed for active participation in interesting discussions and exchange of ideas and stimulated future cooperation among the participants This made EEWC a real working conference contributing to the further development of enterprise engineering as a mature discipline The topics covered include value orientation enterprise change and engineering requirements and entropy issues

Requirements Engineering: Foundation for Software Quality Maya Daneva, Oscar Pastor, 2016-03-04 This book constitutes the proceedings of the 22nd International Working Conference on Requirements Engineering Foundation for Software Quality REFSQ 2016 held in Gothenburg Sweden in March 2016 The 16 full papers and 5 short papers presented in this volume were carefully reviewed and selected from 64 submissions The papers were organized in topical sections named decision making in requirements engineering open source in requirements engineering natural language compliance in requirements engineering requirements engineering in the automotive domain empirical studies in requirements engineering requirements engineering foundations human factors in requirements engineering and research methodology in requirements engineering Requirements Engineering: Foundation for Software Quality Daniel M. Berry, Xavier Franch, 2011-03-16 This book constitutes the refereed proceedings of the 17th International Working Conference on Requirements Engineering Foundation for Software Quality REFSQ 2011 held in Essen Germany in March 2011 The 10 revised full papers and the 9 short papers presented were carefully reviewed and selected from 59 submissions The papers are organized in seven topical sections on security and sustainability process improvement and requirements in context elicitation models services embedded and real time systems and prioritization and traceability *Requirements Engineering: Foundation for Software Quality* Björn Regnell, Daniela Damian, 2012-03-05 This book constitutes the refereed proceedings of the 18th International Working Conference on Requirements Engineering Foundation for Software Quality REFSQ 2012 held in Essen Germany in March 2012 The papers are organized in 10 topical sections on contractual requirements quality requirements collaboration complexity and creativity requirements analysis templates and heuristics

Requirements Engineering: Foundation for Software Quality Daniel M. Berry, Xavier Franch, 2011-03-16 This book constitutes the refereed proceedings of the 17th International Working Conference on Requirements Engineering Foundation for Software Quality REFSQ 2011 held in Essen Germany in March 2011 The 10 revised full papers and the 9 short papers presented were carefully reviewed and selected from 59 submissions The papers are organized in seven topical sections on security and sustainability process improvement and requirements in context elicitation models services embedded and real time systems and prioritization and traceability *Requirements Engineering: Foundation for Software Quality* Björn Regnell, Daniela Damian, 2012-03-05 This book constitutes the refereed proceedings of the 18th International Working Conference on Requirements Engineering Foundation for Software Quality REFSQ 2012 held in Essen Germany in March 2012 The papers are organized in 10 topical sections on contractual requirements quality requirements collaboration complexity and creativity requirements analysis templates and heuristics

requirements traceability tools and quality services and clouds self adaptivity and industrial case studies

Network-Oriented Modeling Jan Treur, 2016-10-03 This book presents a new approach that can be applied to complex integrated individual and social human processes It provides an alternative means of addressing complexity better suited for its purpose than and effectively complementing traditional strategies involving isolation and separation assumptions Network oriented modeling allows high level cognitive affective and social models in the form of cyclic graphs to be constructed which can be automatically transformed into executable simulation models The modeling format used makes it easy to take into account theories and findings about complex cognitive and social processes which often involve dynamics based on interrelating cycles Accordingly it makes it possible to address complex phenomena such as the integration of emotions within cognitive processes of all kinds of internal simulations of the mental processes of others and of social phenomena such as shared understandings and collective actions A variety of sample models including those for ownership of actions fear and dreaming the integration of emotions in joint decision making based on empathic understanding and evolving social networks illustrate the potential of the approach Dedicated software is available to support building models in a conceptual or graphical manner transforming them into an executable format and performing simulation experiments The majority of the material presented has been used and positively evaluated by undergraduate and graduate students and researchers in the cognitive social and AI domains Given its detailed coverage the book is ideally suited as an introduction for graduate and undergraduate students in many different multidisciplinary fields involving cognitive affective social biological and neuroscience domains Requirements Engineering: Foundation for Software Quality Anne Hess, Angelo Susi, 2025-05-02

This book constitutes the refereed proceedings of the 31st International Working Conference on Requirements Engineering Foundation for Software Quality REFSQ 2025 held in Barcelona Spain during April 7 10 2025 The 21 full papers and 8 short papers included in this book were carefully reviewed and selected from 74 submissions They were organized in topical sections as follows Responsible RE Crowd and Large Scale RE Requirements Modeling Requirements Elicitation and Analysis Participatory RE RE for Safety critical and Autonomous Systems and Requirements Quality Assurance

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