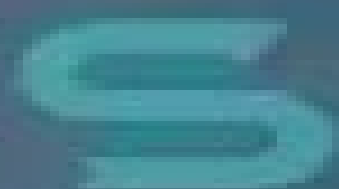


Rafael Capilla
Jan Bosch
Kyo-Chul Kang *Editors*

Systems and Software Variability Management

Concepts, Tools and Experiences

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Systems And Software Variability Management Concepts Tools And Experiences

**Rafael Capilla, Jan Bosch, Kyo-Chul
Kang**



Systems And Software Variability Management Concepts Tools And Experiences:

Systems and Software Variability Management Rafael Capilla, Jan Bosch, Kyo-Chul Kang, 2013-06-12 The success of product line engineering techniques in the last 15 years has popularized the use of software variability as a key modeling approach for describing the commonality and variability of systems at all stages of the software lifecycle Software product lines enable a family of products to share a common core platform while allowing for product specific functionality being built on top of the platform Many companies have exploited the concept of software product lines to increase the resources that focus on highly differentiating functionality and thus improve their competitiveness with higher quality and reusable products and decreasing the time to market condition Many books on product line engineering either introduce specific product line techniques or include brief summaries of industrial cases From these sources it is difficult to gain a comprehensive understanding of the various dimensions and aspects of software variability Here the editors address this gap by providing a comprehensive reference on the notion of variability modeling in the context of software product line engineering presenting an overview of the techniques proposed for variability modeling and giving a detailed perspective on software variability management Their book is organized in four main parts which guide the reader through the various aspects and dimensions of software variability Part 1 which is mostly written by the editors themselves introduces the major topics related to software variability modeling thus providing a multi faceted view of both technological and management issues Next part 2 of the book comprises four separate chapters dedicated to research and commercial tools Part 3 then continues with the most practical viewpoint of the book presenting three different industry cases on how variability is managed in real industry projects Finally part 4 concludes the book and encompasses six different chapters on emerging research topics in software variability like e g service oriented or dynamic software product lines or variability and aspect orientation Each chapter briefly summarizes What you will learn in this chapter so both expert and novice readers can easily locate the topics dealt with Overall the book captures the current state of the art and best practices and indicates important open research challenges as well as possible pitfalls Thus it serves as a reference for researchers and practitioners in software variability management allowing them to develop the next set of solutions techniques and methods in this complicated and yet fascinating field of software engineering

Intelligent Systems: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources, 2018-06-04 Ongoing advancements in modern technology have led to significant developments in intelligent systems With the numerous applications available it becomes imperative to conduct research and make further progress in this field Intelligent Systems Concepts Methodologies Tools and Applications contains a compendium of the latest academic material on the latest breakthroughs and recent progress in intelligent systems Including innovative studies on information retrieval artificial intelligence and software engineering this multi volume book is an ideal source for researchers professionals academics upper level students and practitioners interested in

emerging perspectives in the field of intelligent systems *Handbook of Research on Estimation and Control Techniques in E-Learning Systems* Mkrttchian, Vardan, 2015-12-22 Improvements in the application of online learning technologies are continually on the rise as the expectation for individuals to obtain a higher education grows and more people are seeking alternative modes of education As more institutions implement e learning systems it has become increasingly important to explore the advancements and obstacles of these technologies The Handbook of Research on Estimation and Control Techniques in E Learning Systems presents the latest research in online learning and educational technologies for a diverse range of students and educational environments Featuring comprehensive coverage on the implementation and usage of e education systems this publication explores a variety of pertinent topics including but not limited to ubiquitous computer technology e learning environments and challenges in implementing these technologies serving as a crucial reference source for researchers professionals academicians students government officials and technology developers interested in the adoption and implementation of e learning systems *UML-Based Software Product Line Engineering with SMarty* Edson Oliveira Jr, 2023-02-06 This book is about software product lines SPLs designed and developed taking UML diagrams as the primary basis modeled according to a rigorous approach composed of an UML profile and a systematic process for variability management activities forming the Stereotype based Management of Variability SMarty approach The book consists of five parts Part I provides essential concepts on SPL in terms of the first development methodologies It also introduces variability concepts and discusses SPL architectures finishing with the SMarty approach Part II is focused on the design verification and validation of SMarty SPLs and Part III concentrates on the SPL architecture evolution based on ISO IEC metrics the SysEM PLA method optimization with the MOA4PLA method and feature interaction prevention Next Part IV presents SMarty as a basis for SPL development such as the M SPLearning SPL for mobile learning applications the PLeTs SPL for testing tools the PlugSPL plugin environment for supporting the SPL life cycle the SyMPLES approach for designing embedded systems with SysML the SMartySPeM approach for software process lines SPRL and re engineering of class diagrams into an SPL Eventually Part V promotes controlled experimentation in UML based SPLs presenting essential concepts on how to plan conduct and document experiments as well as showing several experiments carried out with SMarty This book aims at lecturers graduate students and experienced practitioners Lecturers might use the book for graduate level courses about SPL fundamentals and tools students will learn about the SPL engineering process variability management and mass customization and practitioners will see how to plan the transition from single product development to an SPL based process how to document inherent variability in a given domain or how to apply controlled experiments to SPLs Model-Based Product Line Engineering (MBPLE) Marco Forlingieri, Tim Weilkiens, Hugo Guillermo Chalé-Gongora, 2025-04-29 Clear and concise guide to MBPLE with industrial case studies Written in a to the point style Model Based Product Line Engineering MBPLE is the only theoretical and practical foundational book on MBPLE that brings together the topics of model based

systems engineering MBSE and feature based product line engineering PLE It examines how PLE can benefit from a model based and model centric approach and in turn how MBSE combined with holistic PLE can boost model reuse and improve the MBSE business case The book combines both management and engineering aspects to deliver comprehensive coverage of the subject The book covers real life challenges and implementations of MBPLE discussing adoption obstacles faced by engineering organizations and how to overcome them to ensure a successful MBPLE deployment Dozens of SysML v2 views SysML v1 diagrams SysML v2 code snippets and illustrations are included throughout to elucidate key concepts Additional supplementary learning materials are available on a companion website Written by a team of expert authors and contributors with significant experience in the field of applied MBPLE Model Based Product Line Engineering MBPLE discusses sample topics including Motivation for MBPLE covering document based to model based engineering project oriented to product line oriented engineering and digital continuity and system lifecycle management Foundations of MBPLE covering basic definitions the history of MBPLE recent MBPLE works and standards and the impact of MBPLE on engineering processes Implementation of MBPLE using the next generation modeling language SysML v2 Adoption of MBPLE covering investment interests company processes change management and digital transformation and methods guidelines coaching Model Based Product Line Engineering MBPLE delivers vision benefits and strategic guidance for managers executives and business leaders while serving as a practical guide for system engineers who are new to the MBPLE discipline or already familiar with it

Model-Integrating Software Components Mahdi Derakhshanmanesh, 2015-04-30 In his study Mahdi Derakhshanmanesh builds on the state of the art in modeling by proposing to integrate models into running software on the component level without translating them to code Such so called model integrating software exploits all advantages of models models implicitly support a good separation of concerns they are self documenting and thus improve understandability and maintainability and in contrast to model driven approaches there is no synchronization problem anymore between the models and the code generated from them Using model integrating components software will be easier to build and easier to evolve by just modifying the respective model in an editor Furthermore software may also adapt itself at runtime by transforming its own model part

Advanced Information Systems Engineering Workshops Lazaros Iliadis, Michael Papazoglou, Klaus Pohl, 2014-06-05 This book constitutes the thoroughly refereed proceedings of five international workshops held in Thessaloniki Greece in conjunction with the 26th International Conference on Advanced Information Systems Engineering CAiSE 2014 in June 2014 The 24 full and eight short papers were carefully selected from 63 submissions The five workshops were the First International Workshop on Advanced Probability and Statistics in Information Systems APSIS the First International Workshop on Advances in Services Design Based on the Notion of Capability the Second International Workshop on Cognitive Aspects of Information Systems Engineering COGNISE the Third Workshop on New Generation Enterprise and Business Innovation Systems NGEBS and the 4th International Workshop on Information Systems Security

Engineering WISSE *AI Frameworks and Tools for Software Development* Patel, Rahul K.,2025-04-29 The rapid advancements in artificial intelligence AI are transforming how organizations approach software development creating both opportunities and challenges in the workplace As AI tools become more mainstream understanding their role as well as the responsibilities of users is crucial for ensuring their effective integration into software development processes A clear framework for introducing AI in Information Systems Management can significantly enhance the efficiency and effectiveness of development teams and their external stakeholders *AI Frameworks and Tools for Software Development* presents the best practices research findings and guidelines for using AI frameworks and tools in software development It provides a holistic understanding of these key processes functions and workflows that are essential for effective Software Development Lifecycle SDLC Covering topics such as industrial automation knowledge management and code reusability this book is an excellent resource for software developers computer scientists professionals researchers scholars academicians and more

Advances in Conceptual Modeling Sebastian Link,Juan C. Trujillo,2016-10-17 This book constitutes the refereed proceedings of seven workshops and a symposium held at the 35th International Conference on Conceptual Modeling ER 2016 in Gifu Japan The 19 revised full and 3 keynote papers were carefully reviewed and selected out of 52 submissions to the following events Conceptual Modeling for Ambient Assistance and Healthy Ageing AHA 2016 Modeling and Management of Big Data MoBiD 2016 Modeling and Reasoning for Business Intelligence MORE BI 2016 Conceptual Modeling in Requirements and Business Analysis MREBA 2016 Quality of Models and Models of Quality QMMQ 2016 and the Symposium on Conceptual Modeling Education SCME 2016 and Models and Modeling on Security and Privacy WM2SP 2016

Consistent View-Based Management of Variability in Space and Time Ananieva, Sofia,2022-12-06 Developing variable systems faces many challenges Dependencies between interrelated artifacts within a product variant such as code or diagrams across product variants and across their revisions quickly lead to inconsistencies during evolution This work provides a unification of common concepts and operations for variability management identifies variability related inconsistencies and presents an approach for view based consistency preservation of variable systems

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