



Model-Driven and Software Product Line Engineering

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Model Driven And Software Product Line Engineering

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Model Driven And Software Product Line Engineering:

Model-Driven and Software Product Line Engineering Hugo Arboleda, Jean-Claude Royer, 2013-03-06 Many approaches to creating Software Product Lines have emerged that are based on Model Driven Engineering This book introduces both Software Product Lines and Model Driven Engineering which have separate success stories in industry and focuses on the practical combination of them It describes the challenges and benefits of merging these two software development trends and provides the reader with a novel approach and practical mechanisms to improve software development productivity The book is aimed at engineers and students who wish to understand and apply software product lines and model driven engineering in their activities today The concepts and methods are illustrated with two product line examples the classic smart home systems and a collection manager information system **Aspect-Oriented, Model-Driven Software Product Lines** Awais Rashid, Jean-Claude Royer, Andreas Rummler, 2011-09-08 Software product lines provide a systematic means of managing variability in a suite of products They have many benefits but there are three major barriers that can prevent them from reaching their full potential First there is the challenge of scale a large number of variants may exist in a product line context and the number of interrelationships and dependencies can rise exponentially Second variations tend to be systemic by nature in that they affect the whole architecture of the software product line Third software product lines often serve different business contexts each with its own intricacies and complexities The AMPLE <http://www.ample-project.net> approach tackles these three challenges by combining advances in aspect oriented software development and model driven engineering The full suite of methods and tools that constitute this approach are discussed in detail in this edited volume and illustrated using three real world industrial case studies **Model-Based Product Line Engineering (MBPLE)** Marco Forlingieri, Tim Weilkiens, Hugo Guillermo Chalé-Gongora, 2025-03-11 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-Driven Engineering and Software Development Philippe Desfray, Joaquim Filipe, Slimane Hammoudi, Luís Ferreira Pires, 2016-01-04 This book constitutes thoroughly revised and selected papers from the Third International Conference on Model Driven Engineering and Software Development MODELSWARD 2015 held in Angers France in February 2015 The 25 thoroughly revised and extended papers presented in this volume were carefully reviewed and selected from 94 submissions They are organized in topical sections named invited papers modeling languages tools and architectures methodologies processes and platforms applications and software development

Model Driven Engineering Languages and Systems Oscar Nierstrasz, 2006-09-22 This book constitutes the refereed proceedings of the 9th International Conference on Model Driven Engineering Languages and Systems formerly UML conferences MoDELS 2006 The book presents 51 revised full papers and 2 invited papers Discussion is organized in topical sections on evaluating UML MDA in software development concrete syntax applying UML to interaction and coordination aspects model integration formal semantics of UML security model transformation tools and implementation and more

Applied Software Product Line Engineering Kyo C. Kang, Vijayan Sugumaran, Sooyong Park, 2009-12-22 Over the last decade software product line engineering SPLE has emerged as one of the most promising software development paradigms for increasing productivity in IT related industries Detailing the various aspects of SPLE implementation in different domains Applied Software Product Line Engineering documents best practices with regard to syst

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 SysTEM 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 SPLeaning 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 SPeL 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-Driven Engineering and Software Development Slimane Hammoudi, Luís Ferreira Pires, Bran Selic, 2019-01-31 This book constitutes thoroughly revised and selected papers from the 6th International Conference on Model Driven Engineering and Software Development MODELSWARD 2018 held in Funchal Madeira Portugal in January 2018 The 22 thoroughly revised and extended papers presented in this volume were carefully reviewed and selected from 101 submissions They contribute to the development of highly relevant research trends in model driven engineering and software development such as innovative methods for MDD based development and testing of web based applications and user interfaces support for development of Domain Specific Languages DSLs MDD based application development on multiprocessor platforms advances in MDD tooling formal semantics and behaviour modelling and MDD based product line engineering *SOFSEM 2010: Theory and Practice of Computer Science* Jan Leeuwen, Anca Muscholl, David Peleg, Jaroslav Pokorný, Bernhard Rumpe, 2010-01-20 This book constitutes the refereed proceedings of the 36th Conference on Current Trends in Theory and Practice of Computer Science SOFSEM 2010 held in pindleruv Ml n Czech Republic in January 2009 The 53 revised full papers presented together with 11 invited contributions were carefully reviewed and selected from 134 submissions SOFSEM 2010 was organized around the following four tracks Foundations of computer science principles of software construction Data knowledge and intelligent systems and Web science *Model-Driven Domain Analysis and Software Development: Architectures and Functions* Osis, Janis, Asnina, Erika, 2010-10-31 This book displays how to effectively map and respond to the real world challenges and purposes which software must solve covering domains such as mechatronic embedded and high risk systems where failure could cost human lives Provided by publisher

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Model Driven And Software Product Line Engineering Introduction

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