

Software Product-Line Engineering

**A Family-Based Software
Development Process**

**David M. Weiss
Chi Tau Robert Lai**

Foreword by David Lorge Parnas

Software Product Line Engineering A Family Based Software Development Process

Hassan Gomaa

Software Product Line Engineering A Family Based Software Development Process:

Software Product-line Engineering David M. Weiss, Chi Tau, Robert Lai, 1999 illustrates a process that has been successfully applied to reduce costs for organizations that develop large programming systems. With the help of this book many more can learn how to exploit the idea of program families and bring about a substantial improvement in the state of practice in the software industry. David Lorge Parnas Many organizations have mastered the practice of software development yet few have become truly efficient at software production. With the adoption of an efficient systematic software production method organizations can gain significant competitive advantages including reduced time to market, better schedule predictability, more reliable code and decreased costs. Software Product Line Engineering provides the actionable information and proven tactics necessary to effect organizational change and make your future software projects more successful. The authors outline a systematic method for rapid software production through the FAST Family Oriented Abstraction Specification and Translation process, a revolutionary commercial product developed at AT&T that continues to evolve at Lucent Technologies. FAST uses practical domain engineering to dec

Software Product-Family Engineering

Frank van der Linden, 2004-05-24 This book constitutes the thoroughly refereed post proceedings of the 5th International Workshop on Product Family Engineering PFE 2003 held in Siena, Italy in November 2003. The 36 revised full papers presented together with an introductory overview and 3 keynote presentations were carefully selected during two rounds of reviewing and improvement. The papers are organized in topical sections on variation mechanisms, requirements analysis and management, product derivation, transition to family development, industrial experience, evolution and decision and derivation.

Software Product Lines Robert Nord, 2004-08-18 This book constitutes the refereed proceedings of the Third International Software Product Line Conference SPLC 2004 held in Boston, MA, USA in August/September 2004. The 18 revised full technical papers presented together with a keynote abstract and summaries of panels, tutorials and workshops were carefully reviewed and selected for inclusion in the book. Organized in sections on business architecture and quality assurance, the papers address topics ranging from how to start a software product line in a company to case studies of mature product lines and the technology used to test strategies of product lines to strategies and notations for creating product line architectures and to the importance of binding times in creating product lines.

Meta-Programming and Model-Driven Meta-Program Development Vytautas Štuikys, Robertas Damaševičius, 2012-08-21 Meta Programming and Model Driven Meta Program Development Principles, Processes and Techniques presents an overall analysis of meta programming focusing on insights of meta programming techniques, heterogeneous meta program development processes in the context of model driven feature based and transformative approaches. The fundamental concepts of meta programming are still not thoroughly understood in this well organized book divided into three parts the authors help to address this. Chapters include Taxonomy of fundamental concepts of meta programming, Concept of structural heterogeneous meta

programming based on the original meta language Model driven concept and feature based modeling to the development process of meta programs Equivalent meta program transformations and metrics to evaluate complexity of feature based models and meta programs Variety of academic research case studies within different application domains to experimentally verify the soundness of the investigated approaches Both authors are professors at Kaunas University of Technology with 15 years research and teaching experience in the field Meta Programming and Model Driven Meta Program Development Principles Processes and Techniques is aimed at post graduates in computer science and software engineering and researchers and program system developers wishing to extend their knowledge in this rapidly evolving sector of science and technology

Software Product Lines ,2002 *Advanced Information Systems Engineering* Zohra Bellahsène,2008-06-11

This book constitutes the refereed proceedings of the 20th International Conference on Advanced Information Systems Engineering CAiSE 2008 held in Montpellier France in June 2008 The 35 revised full papers and 9 revised short papers presented together with 1 keynote lecture were carefully reviewed and selected from 273 submissions The papers are organized in topical sections on duality and process modelling interoperability of IS and enterprises refactoring information systems in e government and life science knowledge patterns for IS engineering requirements engineering for IS conceptual schema modelling service infrastructure service evolution flexible information technologies metrics and process modelling information system engineering and IS development with ubiquitous technologies

Overview Subramaniam

Ganesan,2010-11-29 Automotive systems engineering addresses the system throughout its life cycle including requirement specification design implementation verification and validation of systems modeling simulation testing manufacturing operation and maintenance This book is the first in a series of four volumes on this subject and features 15 papers published between 2004 2010 that emphasize the importance of systems concepts in the automotive area and stress the use of advanced tools and approaches Topics covered include Technology transfer Six Sigma deployment Systems engineering capability in automotive systems In addition to 11 SAE technical papers this volume also includes two invited papers Systems Engineering Definitions by editor Subramaniam Ganesan and Systems Engineering for Military Ground Vehicles by M Mazzara and R Iyer

Chevrolet Volt Lindsay Brooke,2011-04-04 This compendium presents the most complete design and engineering story available anywhere about this groundbreaking new vehicle It also introduces you to the engineering team and how they made the world's first production extended range electric vehicle a reality Combining articles from SAE

International's Vehicle Electrification and Automotive Engineering International magazines new SAE technical papers and all new content this full color book is the only one of its kind that lifts the veil on how the GM team and key supplier partners met the difficult engineering challenges faced in developing the Volt Topics include the Volt's systems components and model based design a behind the wheel look at a Volt prototype and how the Volt's engineering team used OnStar to collect test drive data from preproduction Volt vehicles There is also an interview with GM's Micky Bly in which the executive explains

how the Volt program enabled GM to take new approaches to vehicle electrical architectures

Designing Software

Product Lines with UML Hassan Gomaa, 2005 *Designing Software Product Lines with UML* is well written informative and addresses a very important topic. It is a valuable contribution to the literature in this area and offers practical guidance for software architects and engineers. Alan Brown, Distinguished Engineer, Rational Software IBM Software Group. Hassan's process and UML extensions allow development teams to focus on feature oriented development and provide a basis for improving the level of reuse across multiple software development efforts. This book will be valuable to any software development professional who needs to manage across projects and wants to focus on creating software that is consistent, reusable and modular in nature. Jeffrey S. Hammond, Group Marketing Manager, Rational Software IBM Software Group. This book brings together a good range of concepts for understanding software product lines and provides an organized method for developing product lines using object oriented techniques with the UML. Once again Hassan has done an excellent job in balancing the needs of both experienced and novice software engineers. Robert G. Pettit, IV Ph.D. Adjunct Professor of Software Engineering, George Mason University. This breakthrough book provides a comprehensive step by step approach on how to develop software product lines which is of great strategic benefit to industry. The development of software product lines enables significant reuse of software architectures. Practitioners will benefit from the well defined PLUS process and rich case studies. Hurley V. Blankenship, II, Program Manager, Justice and Public Safety Science Applications International Corporation. The Product Line UML based Software engineering PLUS is leading edge. With the author's wide experience and deep knowledge, PLUS is well harmonized with architectural and design pattern technologies. Michael Shin, Assistant Professor, Texas Tech University. Long a standard practice in traditional manufacturing, the concept of product lines is quickly earning recognition in the software industry. A software product line is a family of systems that shares a common set of core technical assets with preplanned extensions and variations to address the needs of specific customers or market segments. When skillfully implemented, a product line strategy can yield enormous gains in productivity, quality and time to market. Studies indicate that if three or more systems with a degree of common functionality are to be developed, a product line approach is significantly more cost effective. To model and design families of systems, the analysis and design concepts for single product systems need to be extended to support product lines. *Designing Software Product Lines with UML* shows how to employ the latest version of the industry standard Unified Modeling Language UML 2.0 to reuse software requirements and architectures rather than starting the development of each new system from scratch. Through real world case studies, the book illustrates the fundamental concepts and technologies used in the design and implementation of software product lines. This book describes a new UML based software design method for product lines called PLUS. Product Line UML based Software engineering PLUS provides a set of concepts and techniques to extend UML based design methods and processes for single systems in a new dimension to address software product lines. Using PLUS, the objective is to explicitly model the

commonality and variability in a software product line Hassan Gomaa explores how each of the UML modeling views use case static state machine and interaction modeling can be extended to address software product families He also discusses how software architectural patterns can be used to develop a reusable component based architecture for a product line and how to express this architecture as a UML platform independent model that can then be mapped to a platform specific model Key topics include Software product line engineering process which extends the Unified Development Software Process to address software product lines Use case modeling including modeling the common and variable functionality of a product line Incorporating feature modeling into UML for modeling common optional and alternative product line features Static modeling including modeling the boundary of the product line and information intensive entity classes Dynamic modeling including using interaction modeling to address use case variability State machines for modeling state dependent variability Modeling class variability using inheritance and parameterization Software architectural patterns for product lines Component based distributed design using the new UML 2.0 capability for modeling components connectors ports and provided and required interfaces Detailed case studies giving a step by step solution to real world product line problems Designing Software Product Lines with UML is an invaluable resource for all designers and developers in this growing field The information technology and case studies presented here show how to harness the promise of software product lines and the practicality of the UML to take software design quality and efficiency to the next level An enhanced online index allows readers to quickly and easily search the entire text for specific topics *Configuration in Industrial Product Families* Lothar Hotz, 2006 For software intensive products like car electronics the trend is to offer more product variants This book provides the ConIPF Configuration in Industrial Product Families Methodology It attempts to support product derivation during application engineering with a combination of product line engineering and knowledge based configuration *Design and Use of Software Architectures* Jan Bosch, 2000 A practical guide to designing and implementing software architectures

IBM Systems Journal International Business Machines Corporation, 2006 *ICSE*, 2003 *10th International Symposium on Software Metrics*, 2004 Annotation METRICS explores the latest studies in software measurement empirical software engineering and software quality It focuses on the practice of software measurement and on the use of data to understand evaluate and model software engineering phenomena **Fifth IEEE International Symposium on**

Requirements Engineering, 2001 The proceedings from the August 2001 conference in Toronto feature the text of one keynote speech and the abstracts of three others 28 full papers abstracts for 14 state of the practice talks summaries of three panel sessions abstracts of four research tool demos and fourteen posters Major topics include representing and communicating requirements requirements for product lines organizational issues methods and processes scenarios and requirements negotiation formal methods and tools requirements and design and requirements for critical systems Author index only c Book News Inc **Software Product Line Engineering** Klaus Pohl, Günter Böckle, Frank J. van der

Linden,2005-08-03 Software product line engineering has proven to be the methodology for developing a diversity of software products and software intensive systems at lower costs in shorter time and with higher quality In this book Pohl and his co authors present a framework for software product line engineering which they have developed based on their academic as well as industrial experience gained in projects over the last eight years They do not only detail the technical aspect of the development but also an integrated view of the business organisation and process aspects are given In addition they explicitly point out the key differences of software product line engineering compared to traditional single software system development as the need for two distinct development processes for domain and application engineering respectively or the need to define and manage variability Software Architecture for Product Families Mehdi Jazayeri,A. C. M.

Ran,Frank van der Linden,2000 Software development organizations are now discovering the efficiencies that can be achieved by architecting entire software product families together In Software Architecture for Product Families experts from one of the world s most advanced software domain engineering projects share in depth insights about the techniques that work and those that don t The book offers a solutions oriented case study approach covering the entire development lifecycle based on advanced work done by three of Europe s leading technology companies and their academic partners Discover the challenges that drive companies to consider architecting product families and the new problems they encounter in doing so Master concepts and terms that can be used to describe the architecture of a product family then learn how to assess that architecture and transform it into working applications The authors also present chapter length real world case studies of domain engineering projects at Nokia Philips and ABB

Component-based Product Line Engineering with UML Colin Atkinson,2002 A cutting edge UML based approach to software development and maintenance that integrates component based and product line engineering methods ripe market development of component based technologies is a major growth area CBD viewed as a faster more flexible way of building systems that can easily be adapted to meet rapidly changing business needs and integrate legacy and new applications e g Forrester report in June 1998 predicted that by 2001 half of packaged apps vendors will deliver component based apps e g Butler Group Management Briefing 2000 Butler Group is now advising that all new build and significant modification activity should be based on component architectures Butler Group belives that Component Based Development is one of the most important events in the evolution of information technology e g Gartner Group estimates that by 2003 70% of new applications will be deployed as a combination of pre assembled and newly created components integrated to form complex business systems The book defines describes and shows how to use a method for component based product line engineering supported by UML This method aims to dramatically increase the level of reuse in software development by integrating the strengths of both of these approaches UML is used to describe components during the analysis design ERP business software system as appendix or separate chapter bibliography glossary appendices covering UML profiles concise process description in the form of UML activity

diagrams refinement translation patterns AUDIENCE Software engineers architects project managers Software engineers working in the area of distributed enterprise systems who want a method for applying a component based or product line engineering approach in practice 15th International Conference on Automated Software Engineering 2000 ,2000
Researchers and practitioners share their latest on automating various tasks of software engineering The 23 full papers cover verification requirements evolution synthesis and code generation algebraic specification process design and testing
Another 23 short papers consider such topics as Proceedings of the ... ASME Design Engineering Technical Conferences ,2007

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Table of Contents Software Product Line Engineering A Family Based Software Development Process

1. Understanding the eBook Software Product Line Engineering A Family Based Software Development Process
 - The Rise of Digital Reading Software Product Line Engineering A Family Based Software Development Process
 - Advantages of eBooks Over Traditional Books
2. Identifying Software Product Line Engineering A Family Based Software Development Process
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Software Product Line Engineering A Family Based Software Development Process
 - User-Friendly Interface
4. Exploring eBook Recommendations from Software Product Line Engineering A Family Based Software Development Process
 - Personalized Recommendations
 - Software Product Line Engineering A Family Based Software Development Process User Reviews and Ratings
 - Software Product Line Engineering A Family Based Software Development Process and Bestseller Lists
5. Accessing Software Product Line Engineering A Family Based Software Development Process Free and Paid eBooks
 - Software Product Line Engineering A Family Based Software Development Process Public Domain eBooks
 - Software Product Line Engineering A Family Based Software Development Process eBook Subscription Services

- Software Product Line Engineering A Family Based Software Development Process Budget-Friendly Options

6. Navigating Software Product Line Engineering A Family Based Software Development Process eBook Formats

- ePUB, PDF, MOBI, and More
- Software Product Line Engineering A Family Based Software Development Process Compatibility with Devices
- Software Product Line Engineering A Family Based Software Development Process Enhanced eBook Features

7. Enhancing Your Reading Experience

- Adjustable Fonts and Text Sizes of Software Product Line Engineering A Family Based Software Development Process
- Highlighting and Note-Taking Software Product Line Engineering A Family Based Software Development Process
- Interactive Elements Software Product Line Engineering A Family Based Software Development Process

8. Staying Engaged with Software Product Line Engineering A Family Based Software Development Process

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Software Product Line Engineering A Family Based Software Development Process

9. Balancing eBooks and Physical Books Software Product Line Engineering A Family Based Software Development Process

- Benefits of a Digital Library
- Creating a Diverse Reading Collection Software Product Line Engineering A Family Based Software Development Process

10. Overcoming Reading Challenges

- Dealing with Digital Eye Strain
- Minimizing Distractions
- Managing Screen Time

11. Cultivating a Reading Routine Software Product Line Engineering A Family Based Software Development Process

- Setting Reading Goals Software Product Line Engineering A Family Based Software Development Process
- Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Software Product Line Engineering A Family Based Software Development Process

- Fact-Checking eBook Content of Software Product Line Engineering A Family Based Software Development Process

- Distinguishing Credible Sources

13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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