

Advanced Information and Knowledge Processing

Vytautas Štuikys
Robertas Damaševičius

Meta-Programming and Model-Driven Meta-Program Development

Principles, Processes and Techniques

 Springer

Meta Programming And Model Driven Meta Program Development

**Constantine Stephanidis, Margherita
Antona**



Meta Programming And Model Driven Meta Program Development:

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 Smart Learning Objects for Smart Education in Computer Science Vytautas Štuikys, 2015-05-31 This monograph presents the challenges vision and context to design smart learning objects SLOs through Computer Science CS education modelling and feature model transformations It presents the latest research on the meta programming based generative learning objects the latter with advanced features are treated as SLOs and the use of educational robots in teaching CS topics The introduced methodology includes the overall processes to develop SLO and smart educational environment SEE and integrates both into the real education setting to provide teaching in CS using constructivist and project based approaches along with evaluation of pedagogic outcomes Smart Learning Objects for Smart Education in Computer Science will appeal to researchers in CS education particularly those interested in using robots in teaching course designers and educational software and tools developers With research and exercise questions at the end of each chapter students studying CS related courses will find this work informative and valuable too **Evolution of STEM-Driven**

Computer Science Education Vytautas Štuikys, Renata Burbaitė, 2024-01-01 The book discusses the evolution of STEM driven Computer Science CS Education based on three categories of Big Concepts Smart Education Pedagogy Technology tools and adequate processes and Content that relates to IoT Data Science and AI For developing designing testing delivering and assessing learning outcomes for K 12 students 9 12 classes the multi dimensional modelling methodology is at the centre The methodology covers conceptual and feature based modelling prototyping and virtual and physical modelling at the implementation and usage level Chapters contain case studies to assist understanding and learning The book contains

multiple methodological and scientific innovations including models frameworks and approaches to drive STEM driven CS education evolution Educational strategists educators and researchers will find valuable material in this book to help them improve STEM driven CS education strategies curriculum development and new ideas for research Smart STEM-Driven Computer Science Education Vytautas Štuikys, Renata Burbaitė, 2018-06-28 At the centre of the methodology used in this book is STEM learning variability space that includes STEM pedagogical variability learners social variability technological variability CS content variability and interaction variability To design smart components firstly the STEM learning variability space is defined for each component separately and then model driven approaches are applied The theoretical basis includes feature based modelling and model transformations at the top specification level and heterogeneous meta programming techniques at the implementation level Practice includes multiple case studies oriented for solving the task prototypes taken from the real world by educational robots These case studies illustrate the process of gaining interdisciplinary knowledge pieces identified as S knowledge T knowledge E knowledge M knowledge or integrated STEM knowledge and evaluate smart components from the pedagogical and technological perspectives based on data gathered from one real teaching setting Smart STEM Driven Computer Science Education Theory Methodology and Robot based Practices outlines the overall capabilities of the proposed approach and also points out the drawbacks from the viewpoint of different actors i e researchers designers teachers and learners Model-Driven Software Development Markus Völter, Thomas Stahl, Jorn Bettin, Arno Haase, Simon Helsen, 2013-06-26 Model Driven Software Development MDSD is currently a highly regarded development paradigm among developers and researchers With the advent of OMG s MDA and Microsoft s Software Factories the MDSD approach has moved to the centre of the programmer s attention becoming the focus of conferences such as OOPSLA JAOC and OOP MDSD is about using domain specific languages to create models that express application structure or behaviour in an efficient and domain specific way These models are subsequently transformed into executable code by a sequence of model transformations This practical guide for software architects and developers is peppered with practical examples and extensive case studies International experts deliver A comprehensive overview of MDSD and how it relates to industry standards such as MDA and Software Factories Technical details on meta modeling DSL construction model to model and model to code transformations and software architecture Invaluable insight into the software development process plus engineering issues such as versioning testing and product line engineering Essential management knowledge covering economic and organizational topics from a global perspective Get started and benefit from some practical support along the way **Conceptual Modeling Perspectives** Jordi Cabot, Cristina Gómez, Oscar Pastor, Maria Ribera Sancho, Ernest Teniente, 2017-10-12 Conceptual modeling has always been one of the main issues in information systems engineering as it aims to describe the general knowledge of the system at an abstract level that facilitates user understanding and software development This collection of selected papers provides a comprehensive and extremely

readable overview of what conceptual modeling is and perspectives on making it more and more relevant in our society It covers topics like modeling the human genome blockchain technology model driven software development data integration and wiki like repositories and demonstrates the general applicability of conceptual modeling to various problems in diverse domains Overall this book is a source of inspiration for everybody in academia working on the vision of creating a strong fruitful and creative community of conceptual modelers With this book the editors and authors want to honor Prof Antoni Oliv for his enormous and ongoing contributions to the conceptual modeling discipline It was presented to him on the occasion of his keynote at ER 2017 in Valencia a conference that he has contributed to and supported for over 20 years Thank you very much to Antoni for so many years of cooperation and friendship

Model-Driven Software Development: Integrating Quality Assurance Rech, Jörg, Bunse, Christian, 2008-08-31 Covers important concepts issues trends methodologies and technologies in quality assurance for model driven software development

Universal Access in Human-Computer Interaction: Design and Development Methods for Universal Access Constantine Stephanidis, Margherita Antona, 2014-05-15 The four volume set LNCS 8513 8516 constitutes the refereed proceedings of the 8th International Conference on Universal Access in Human Computer Interaction UAHCI 2014 held as part of the 16th International Conference on Human Computer Interaction HCII 2014 held in Heraklion Crete Greece in June 2014 jointly with 14 other thematically similar conferences The total of 1476 papers and 220 posters presented at the HCII 2014 conferences was carefully reviewed and selected from 4766 submissions These papers address the latest research and development efforts and highlight the human aspects of design and use of computing systems The papers thoroughly cover the entire field of human computer interaction addressing major advances in knowledge and effective use of computers in a variety of application areas The total of 251 contributions included in the UAHCI proceedings were carefully reviewed and selected for inclusion in this four volume set The 51 papers included in this volume are organized in the following topical sections design for all methods techniques and tools development methods and tools for universal access user models adaption and personalization natural multimodal and multisensory interaction and brain computer interfaces

Model-Based Software and Data Integration Ralf-Detlef Kutsche, Nikola Milanovic, 2008-05-06 Here are selected papers of the First International Workshop on Model Based Software and Data Integration 2008 part of the Berlin Software Integration Week 2008 The 9 revised full papers and 3 invited lectures were carefully picked from numerous submissions

Information and Software Technologies Tomas Skersys, Rimantas Butleris, Rita Butkiene, 2013-11-13 This book constitutes the refereed proceedings of the 18th International Conference on Information and Software Technologies ICIST 2012 held in Kaunas Lithuania in September 2012 The 40 revised full papers presented were carefully reviewed and selected from 81 submissions The papers are organized in topical sections on artificial intelligence and knowledge engineering business process modelling analysis and design formal analysis and design methods information and software systems engineering information technology applications and computer networks

information technology in teaching and learning ontology conceptual modelling and databases requirements engineering and business rules

Configurable Software Performance Completions through Higher-Order Model Transformations

Happe, Lucia, 2014-11-26 Chillies is a novel approach for variable model transformations closing the gap between abstract architecture models used for performance prediction and required low level details We enable variability of transformations using chain of generators based on the Higher Order Transformation HOT HOTs target different goals such as template instantiation or transformation composition In addition we discuss state dependent behavior in prediction models and quality of model transformations

Concurrent Programming, Open Systems and Formal Methods

Jose Meseguer, Carlos A. Varela, Nalini Venkatasubramanian, 2025-09-24 This Festschrift is dedicated to Gul Agha in recognition of his outstanding research and teaching impact Gul Agha received his undergraduate degree at Caltech in 1977 and his A M M S and Ph D degrees at the University of Michigan Ann Arbor His thesis led to the MIT Press book Actors A Model of Concurrent Computation in Distributed Systems a work cited nearly 5000 times After researcher and lecturer appointments at MIT and Yale he moved to the University of Illinois Urbana Champaign where he started as an assistant professor in 1989 and subsequently become a full professor and the founding director of the Open Systems Laboratory The team's goal is to develop concurrent programming languages and systems that support applications with high performance fault tolerance or real time requirements and this work has been very influential across domains such as Software Engineering Formal Methods Programming Languages Concurrency Theory Distributed Systems and Cyber Physical Systems Gul Agha is a Fellow of the IEEE and a Fellow of the ACM other honors include the IBM Faculty Award the ONR Young Investigator Award and the ACM Recognition of Service Award Over the course of his career Gul has been a highly impactful mentor and he has collaborated in research and in publications with a wide range of scientists and engineers in academia and in industry Beyond his deep expertise they have been inspired by his well rounded intellect philosophy of life and sense of humor and their successes are reflected in the papers contributed to this volume

Advances in Systems, Computing Sciences and Software Engineering

Tarek Sobh, Khaled Elleithy, 2007-09-27 Advances in Systems Computing Sciences and Software Engineering This book includes the proceedings of the International Conference on Systems Computing Sciences and Software Engineering SCSS 05 The proceedings are a set of rigorously reviewed world class manuscripts addressing and detailing state of the art research projects in the areas of computer science software engineering computer engineering systems sciences and engineering information technology parallel and distributed computing and web based programming SCSS 05 was part of the International Joint Conferences on Computer Information and Systems Sciences and Engineering CISSE 05 www.cisse2005.org the World's first Engineering Computing and Systems Research E Conference CISSE 05 was the first high caliber Research Conference in the world to be completely conducted online in real time via the internet CISSE 05 received 255 research paper submissions and the final program included 140 accepted papers from more than 45

countries The concept and format of CISSE 05 were very exciting and ground breaking The PowerPoint presentations final paper manuscripts and time schedule for live presentations over the web had been available for 3 weeks prior to the start of the conference for all registrants so they could choose the presentations they want to attend and think about questions that they might want to ask The live audio presentations were also recorded and were part of the permanent CISSE archive which also included all power point presentations and papers SCSS 05 provided a virtual forum for presentation and discussion of the state of the art research on Systems Computing Sciences and Software Engineering *Model Driven Engineering Languages and Systems* Gregor Engels,Bill Opdyke,Douglas C. Schmidt, Frank Weil, 2007-09-12 This book constitutes the refereed proceedings of the 10th International Conference on Model Driven Engineering Languages and Systems formerly the UML series of conferences MODELS 2007 held in Nashville USA September 30 October 5 2007 The 45 revised full papers were carefully reviewed and selected from 158 initial submissions The papers are organized in topical sections

New Trends in Software Methodologies, Tools and Techniques Hamido Fujita, Paul Johannesson, 2002 Annotation The Lyee International Workshop Lyee W02 is a means for presenting the results of the Lyee International research project oriented for new software generation techniques based on Lyee technologies Lyee W02 will help to build a forum for exchanging ideas and experiences in the field of new directions on software development methodologies and its tools and techniques Lyee methodology captures the essence of the innovations controversies challenges and possible solutions of the software industry This theory is born from experience and it is the time to stimulate the academic research on software science initiated from experience to theory through this workshop and its coming series *Aspect-Oriented Security Hardening of UML Design Models* Djedjiga Mouheb, Mourad Debbabi, Makan Pourzandi, Lingyu Wang, Mariam Nouh, Raha Ziarati, Dima Alhadidi, Chamseddine Talhi, Vitor Lima, 2015-04-22 This book comprehensively presents a novel approach to the systematic security hardening of software design models expressed in the standard UML language It combines model driven engineering and the aspect oriented paradigm to integrate security practices into the early phases of the software development process To this end a UML profile has been developed for the specification of security hardening aspects on UML diagrams In addition a weaving framework with the underlying theoretical foundations has been designed for the systematic injection of security aspects into UML models The work is organized as follows chapter 1 presents an introduction to software security model driven engineering UML and aspect oriented technologies Chapters 2 and 3 provide an overview of UML language and the main concepts of aspect oriented modeling AOM respectively Chapter 4 explores the area of model driven architecture with a focus on model transformations The main approaches that are adopted in the literature for security specification and hardening are presented in chapter 5 After these more general presentations chapter 6 introduces the AOM profile for security aspects specification Afterwards chapter 7 details the design and the implementation of the security weaving framework including several real life case studies to illustrate its applicability Chapter 8 elaborates an

operational semantics for the matching weaving processes in activity diagrams while chapters 9 and 10 present a denotational semantics for aspect matching and weaving in executable models following a continuation passing style Finally a summary and evaluation of the work presented are provided in chapter 11 The book will benefit researchers in academia and industry as well as students interested in learning about recent research advances in the field of software security engineering

Formal Methods for Model-Driven Engineering Marco Bernardo,Vittorio Cortellessa,Alfonso Pierantonio,2012-06-26 This book presents 11 tutorial lectures by leading researchers given at the 12th edition of the International School on Formal Methods for the Design of Computer Communication and Software Systems SFM 2012 held in Bertinoro Italy in June 2012 SFM 2012 was devoted to model driven engineering and covered several topics including modeling languages model transformations functional and performance modeling and analysis and model evolution management *Design for Teaching and Learning in a Networked World* Gráinne Conole,Tomaž Klobučar,Christoph

Rensing,Johannes Konert,Elise Lavoué,2015-09-07 This book constitutes the refereed proceedings of the 10th European Conference on Technology Enhanced Learning EC TEL 2015 held in Toledo Spain in September 2015 The 27 full papers 19 short papers 9 demo papers and 23 posters were carefully reviewed and selected from 176 submissions They address topics such as blended learning self regulated and self directed learning reflective learning intelligent learning systems learning communities learning design learning analytics learning assessment personalization and adaptation serious games social media massive open online courses MOOCs schools of the future Domain-Specific Model-Driven Testing Stefan

Bärisch,2010-04-03 Stefan Baerisch applies a combination of feature modelling and code generation for which he uses a model driven approach in order to facilitate the design of tests by non programmers This combination of modelling and code generation allows for a more integrated and more efficient testing process **Information and Software Technologies**

Robertas Damaševičius,Giedrė Vasiljevienė,2018-08-28 This book constitutes the refereed proceedings of the 24th International Conference on Information and Software Technologies ICIST 2018 held in Vilnius Lithuania in October 2018 The 48 papers presented were carefully reviewed and selected from 124 submissions The papers are organized in topical sections on information systems business intelligence for information and software systems software engineering and information technology applications

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