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Modeling Software BehaviorModels in Software EngineeringModeling Software with Finite State MachinesModels in Software EngineeringModels in Software EngineeringModels in Software EngineeringModels for Software-Intensive System DevelopmentMetrics and Models in Software Quality EngineeringModel-Driven Software Engineering in PracticeModeling Software MarketsModels to CodeComputational Models, Software Engineering, and Advanced Technologies in Air Transportation: Next Generation ApplicationsModel-Driven Software Engineering in PracticeModels in Software EngineeringModels, Algebras and Logic of Engineering SoftwareProcess Based Unification for Multi-model Software Process ImprovementModel-Driven Software DevelopmentThe Art of Software ModelingMetrics For Software Conceptual ModelsSharing Data and Models in Software Engineering Paul C. Jorgensen Thomas Kühne Ferdinand Wagner J rg Kienzle Sudipto Ghosh Michel R. V. Chaudron Benoit Combemale Stephen H. Kan Marco Brambilla Falk Graf Westarp Leon Starr Weigang, Li Marco Brambilla Juergen Dingel Manfred Broy Z.D. Kelemen Sami Beydeda Benjamin A Lieberman Marcela Genero Tim Menzies

this book provides engineers developers and technicians with a detailed treatment of various models of software behavior that will support early analysis comprehension and model based testing the expressive capabilities and limitations of each behavioral model are also discussed

this book constitutes the thoroughly refereed post proceedings of 11 international workshops held as satellite events of the 9th international conference on model driven engineering languages and systems models 2006 in genoa italy in october 2006 see lncs 4199 the 32 revised full papers were carefully selected for inclusion in the book they are presented along with a doctorial and an educators symposium section

modeling software with finite state machines a practical approach explains how to apply finite state machines to software development it provides a critical analysis of using finite state machines as a foundation for executable specifications to reduce software development effort and improve quality it discusses the design of a state machine and of a system of state machines it also presents a detailed analysis of development issues relating to behavior modeling with design examples and design rules for using finite state machines this text demonstrates the implementation of these concepts using stateworks software and introduces the basic components of this software

this book presents a comprehensive documentation of the scientific outcome of satellite events held at the 14th international conference on model driven engineering languages and systems models 2011 held in wellington new zealand in october 2011 in addition to 3 contributions each of the doctoral symposium and the educators symposium papers from the following workshops are included variability for you multi paradigm modeling experiences and empirical studies in software modelling models run time model driven engineering verification and validation comparing modeling approaches models and evoluation and model based architecting and construction of embedded systems

this book constitutes a collection of the best papers selected from 9 workshops and 2 symposia held in conjunction iwth models 2009 the 12 international conference on model driven engineering languages and systems in denver co usa in october 2009 the first two sections contain selected papers from the doctoral symposium and the educational symposium respectively the other contributions are organized according to the workshops at which they were presented 2nd international workshop on model based architecting and construction of embedded systems aces mb 09 14th international workshop on aspect oriented modeling aom models run time models run time model driven engineering verification and validation integrating verification and validation in mde modevva09 models and evolution modse mccm third

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international workshop on multi paradigm modeling mpm09 the pragmatics of ocl and other textual specification languages ocl 2nd international workshop on non functional system properties in domain specific modeling languages nfpindsml and 2nd workshop on transformation and weaving owl ontologies and mde mda twomde2009 each section includes a summary of the workshop

this book constitutes a collection of the best papers selected from the 12 workshops and 3 tutorials held in conjunction with models 2008 the 11th international conference on model driven engineering languages and systems in toulouse france september 28 october 3 2008 the contributions are organized within the volume according to the workshops at which they were presented model based architecting and construction of embedded systems aces mb challenges in model driven software engineering chamde empirical studies of model driven engineering esmda models runtime model co evolution and consistency management mccm model driven engineering mdwe modeling security modsec model based design of trustworthy health information systems mothis non functional system properties in domain specific modeling languages nfpin dsml ocl tools from implementation to evaluation and comparison ocl quality in modeling qim and transforming and weaving ontologies and model driven engineering twomde each section includes a summary of the workshop the last three sections contain selected papers from the doctoral symposium the educational symposium and the research project symposium respectively

this book introduces model driven approaches in software development using a pragmatic presentation that includes foundational sidebars and industrial experiences suitable as a textbook for master students in software engineering it is also an ideal reference for professional software engineers the book leverages experiences from the modeling community to provide a broader view of the use of models in software development it fills a gap in the literature by providing a body of knowledge representative of the recent evolution in the model driven engineering domain

this is the single best book on software quality engineering and metrics that i ve encountered capers jones from the foreword metrics and models in software quality engineering second edition is the definitive book on this essential topic of software development comprehensive in scope with extensive industry examples it shows how to measure software quality and use measurements to improve the software development process four major categories of quality metrics and models are addressed quality management software reliability and projection complexity and customer view in addition the book discusses the fundamentals of measurement theory specific quality metrics and tools and methods for applying metrics to the software development process new chapters bring coverage of critical topics including in process metrics for software testingmetrics for object oriented software developmentavailability metricsmethods for conducting in process quality assessments and

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software project assessmentsdos and don ts of software process improvement by patrick o tooleusing function point metrics to measure software process improvement by capers jones in addition to the excellent balance of theory techniques and examples this book is highly instructive and practical covering one of the most important topics in software development quality engineering 0201729156b08282002

this book discusses how model based approaches can improve the daily practice of software professionals this is known as model driven software engineering mdse or simply model driven engineering mde mdse practices have proved to increase efficiency and effectiveness in software development as demonstrated by various quantitative and qualitative studies mdse adoption in the software industry is foreseen to grow exponentially in the near future e g due to the convergence of software development and business analysis the aim of this book is to provide you with an agile and flexible tool to introduce you to the mdse world thus allowing you to quickly understand its basic principles and techniques and to choose the right set of mdse instruments for your needs so that you can start to benefit from mdse right away the book is organized into two main parts the first part discusses the foundations of mdse in terms of basic concepts i e models and transformations driving principles application scenarios and current standards like the well known mda initiative proposed by omg object management group as well as the practices on how to integrate mdse in existing development processes the second part deals with the technical aspects of mdse spanning from the basics on when and how to build a domain specific modeling language to the description of model to text and model to model transformations and the tools that support the management of mdse projects the book is targeted to a diverse set of readers spanning professionals ctos cios and team managers that need to have a bird s eye vision on the matter so as to take the appropriate decisions when it comes to choosing the best development techniques for their company or team software analysts developers or designers that expect to use mdse for improving everyday work productivity either by applying the basic modeling techniques and notations or by defining new domain specific modeling languages and applying end to end mdse practices in the software factory and academic teachers and students to address undergrad and postgrad courses on mdse in addition to the contents of the book more resources are provided on the book s website including the examples presented in the book table of contents introduction mdse principles mdse use cases model driven architecture mda integration of mdse in your development process modeling languages at a glance developing your own modeling language model to model transformations model to text transformations managing models summary

as social beings humans are not living in isolation but rather interact and communicate within their social network via language meant to convey parts of some conceptualization from the sender to a single recipient or a set of recipients communities of agents not only share a common language but also the individual conceptualizations of the world real and abstract have to overlap to a significant extent allowing for efficient reference to whole conceptual structures like the german

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constitution game theory or medical sciences for societies of interacting technical devices or software agents the situation is not quite as babylonian since although these agents are meant to act individually and also have a private state and private knowledge in most cases they are designed to refer to one common ontology or standardized protocol and thus do not have to deal with misunderstanding however the more these systems become interconnected the more this situation resembles the one described for societies of human agents even though the misunderstanding might be easier to detect when the different reference ontologies are made explicit and published obviously in both cases standardization of a common language or set of rules for interaction reduces the individual degree of freedom for the sake of compatibility and benefits derived from interaction in his work falk graf von westarp addresses the software market as a domain strongly depending on compatibility effects of the individuals decisions

this book teaches you how to translate an executable model of your application to efficient running code on an embedded microcomputer platform without any mysterious gaps or hidden proprietary tools there are many benefits to a model oriented approach to software engineering but the path from models to code is not always clear using a pragmatic approach models to code uses annotated model and code examples to illustrate the key principles you will start off with a brief overview of model based engineering concepts then quickly dive into two case study executable uml models that expose the key model elements you will also understand the future of code translation and approaches you can take with other platforms and languages as well as open source enhancements and alternative strategies for developers to try although the techniques are shown using c and a microcomputer they are not specific to that language or platform the code generation strategy you learn can easily be adapted to your own implementation technology written by three industry experts models to code is your number one resource for software modelling add it to your library today what you will learn the purpose and benefits of model driven code generation the specific differences between application and implementation details what details are required in an executable uml model prior to implementation how to specify an implementation without modifying the application models how to specify an executable uml model in the pycca scripting language how to specify implementation choices in pycca how a model can be repackaged as an efficient implementation automatically diverse strategies for converting various model elements into code elements who this book is for this book is for modelers and systems engineers on active mbse projects using executable uml or not projects using simulink matlab dymola matrixx and other math modelling tools any developers with current or past model experience professors and students systems engineers embedded systems developers or anyone interested in learning more about software modelling

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this book discusses how model based approaches can improve the daily practice of software professionals this is known as model driven software engineering mdse or simply model driven engineering mde mdse practices have proved to increase efficiency and effectiveness in software development as demonstrated by various quantitative and qualitative studies mdse adoption in the software industry is foreseen to grow exponentially in the near future e g due to the convergence of software development and business analysis the aim of this book is to provide you with an agile and flexible tool to introduce you to the mdse world thus allowing you to quickly understand its basic principles and techniques and to choose the right set of mdse instruments for your needs so that you can start to benefit from mdse right away the book is organized into two main parts the first part discusses the foundations of mdse in terms of basic concepts i e models and transformations driving principles application scenarios and current standards like the well known mda initiative proposed by omg object management group as well as the practices on how to integrate mdse in existing development processes the second part deals with the technical aspects of mdse spanning from the basics on when and how to build a domain specific modeling language to the description of model to text and model to model transformations and the tools that support the management of mdse projects the second edition of the book features a set of completely new topics including full example of the creation of a new modeling language ifml discussion of modeling issues and approaches in specific domains like business process modeling user interaction modeling and enterprise architecture complete revision of examples figures and text for improving readability understandability and coherence better formulation of definitions dependencies between concepts and ideas addition of a complete index of book content in addition to the contents of the book more resources are provided on the book s website mdse book com including the examples presented in the book

this book presents a comprehensive documentation of the scientific outcome of 14 satellite events held at the 13th international conference on model driven engineering languages and systems models 2010 held in oslo norway in october 2010 besides the 21 revised best papers selected from 12 topically focused workshops the post proceedings also covers the doctoral symposium and the educators symposium each of the 14 satellite events covered is introduced by a summary of the respective organizers all relevant current aspects in model based systems design and analysis are addressed this book is the companion of the models 2010 main conference proceedings lncs 6394 6395

this volume focuses on the education of researchers teachers students and practitioners as usual in engineering a study and application of the relevant branches of

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mathematics is crucial both in education and practice

many different quality approaches are available in the software industry some of the ap proaches such as iso 9001 are not software specific i e they define general requirements for an organization and they can be used at any company others such as automotive spice have been derived from a software specific approach and can be used for improving specific in this case automotive processes some are created to improve development processes e g cmmi for development others focus on services e g cmmi for services and again others are related to particular processes such as software testing e g tmmi or resource manage ment e g people cmm a number of differences among quality approaches exist and there can be various situations in which the usage of multiple approaches is required e g to strengthen a particular process with multiple quality approaches or to reach certification of the compliance to a number of stand ards first of all it has to be decided which approaches have potential for the organization in many cases one approach does not contain enough information for process implementation consequently the organization may need to use several approaches and the decision has to be made how the chosen approaches can be used simultaneously this area is called multi model software process improvement mspi the simultaneous usage of multiple quality ap proaches is called the multi model problem in this dissertation we propose a solution for the multi model problem which we call the pro cess based unification pbu framework the pbu framework consists of the pbu concept a pbu process and the pbu result we call pbu concept the mapping of quality approaches to a unified process the pbu concept is operationalized by a pbu process the pbu result includes the resulting unified process and the mapping of quality approaches to the unified process accordingly we addressed the following research question does the pbu framework provide a soluti

abstraction is the most basic principle of software engineering abstractions are provided by models modeling and model transformation constitute the core of model driven development models can be refined and finally be transformed into a technical implementation i e a software system the aim of this book is to give an overview of the state of the art in model driven software development achievements are considered from a conceptual point of view in the first part while the second part describes technical advances and infrastructures finally the third part summarizes experiences gained in actual projects employing model driven development beydeda book and gruhn put together the results from leading researchers in this area both from industry and academia the result is a collection of papers which gives both researchers and graduate students a comprehensive overview of current research issues and industrial forefront practice as promoted by omg s mda initiative

modeling complex systems is a difficult challenge and all too often one in which modelers are left to their own devices using a multidisciplinary approach the art of

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software modeling covers theory practice and presentation in detail it focuses on the importance of model creation and demonstrates how to create meaningful models presenting three self contained sections the text examines the background of modeling and frameworks for organizing information it identifies techniques for researching and capturing client and system information and addresses the challenges of presenting models to specific audiences using concepts from art theory and aesthetics this broad based approach encompasses software practices cognitive science and information presentation the book also looks at perception and cognition of diagrams view composition color theory and presentation techniques providing practical methods for investigating and organizing complex information the art of software modeling demonstrates the effective use of modeling techniques to improve the development process and establish a functional useful and maintainable software system

the idea that measuring quality is the key to developing high quality software systems is gaining relevance moreover it is widely recognised that the key to obtaining better software systems is to measure the quality characteristics of early artefacts produced at the conceptual modelling phase therefore improving the quality of conceptual models is a major step towards the improvement of software system development since the 1970s software engineers had been proposing high quantities of metrics for software products processes and resources but had not been paying any special attention to conceptual modelling by the mid 1990s however the need for metrics for conceptual modelling had emerged this book provides an overview of the most relevant existing proposals of metrics for conceptual models covering conceptual models for both products and processes

data science for software engineering sharing data and models presents guidance and procedures for reusing data and models between projects to produce results that are useful and relevant starting with a background section of practical lessons and warnings for beginner data scientists for software engineering this edited volume proceeds to identify critical questions of contemporary software engineering related to data and models learn how to adapt data from other organizations to local problems mine privatized data prune spurious information simplify complex results how to update models for new platforms and more chapters share largely applicable experimental results discussed with the blend of practitioner focused domain expertise with commentary that highlights the methods that are most useful and applicable to the widest range of projects each chapter is written by a prominent expert and offers a state of the art solution to an identified problem facing data scientists in software engineering throughout the editors share best practices collected from their experience training software engineering students and practitioners to master data science and highlight the methods that are most useful and applicable to the widest range of projects shares the specific experience of leading researchers and techniques developed to handle data problems in the realm of software engineering explains how to start a project of data science for software

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engineering as well as how to identify and avoid likely pitfalls provides a wide range of useful qualitative and quantitative principles ranging from very simple to cutting edge research addresses current challenges with software engineering data such as lack of local data access issues due to data privacy increasing data quality via cleaning of spurious chunks in data

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