

Modelling Systems

Practical Tools and Techniques
in Software Development

John Fitzgerald
Peter Gorm Larsen

Modelling Systems Practical Tools And Techniques In Software Development

**John Fitzgerald, Cláudio Gomes, Peter
Gorm Larsen**



Modelling Systems Practical Tools And Techniques In Software Development:

Modelling Systems John Fitzgerald, Peter Gorm Larsen, 1998-06-25 Textbook on software modelling that comes with a CD providing tool support

Formal Methods for Components and Objects Frank S. de Boer, Marcello M. Bonsangue, Stefan Hallerstede, Michael Leuschel, 2010-11-11 All modern industries rely on large and complex software systems In order to construct such large systems in a systematic manner the focus of the development methodologies has switched in the last two decades from functional to structural issues Formal methods have been applied successfully to the verification of medium sized programs in protocol and hardware design However their application to the development of large systems requires a greater emphasis on specification modeling and validation techniques supporting the concepts of reusability and modifiability and their implementation in new extensions of existing programming languages like Java This state of the art survey presents the outcome of the 8th Symposium on Formal Methods for Components and Objects held in Eindhoven The Netherlands in November 2009 The volume contains 17 revised contributions submitted after the symposium by speakers from each of the following European IST projects the IST FP6 project BIONETS on biologically inspired services evolution for the pervasive age the IST FP7 project COMPAS on compliance driven models languages and architectures for services the IST FP6 project CREDO on modelling and analysis of evolutionary structures for distributed services the IST FP7 DEPLOY on industrial deployment of advanced system engineering methods for high productivity and dependability the IST FP7 project HATS on highly adaptable and trustworthy software using formal methods the IST FP7 project INESS on integrated European railway signalling system the IST FP7 project MOGENTES on model based generation of tests for dependable embedded systems the IST FP6 project PROTEST on property based testing and the IST FP7 project QUASIMODO on quantitative system properties in model driven design of embedded systems

Collaborative Design for Embedded Systems John Fitzgerald, Peter Gorm Larsen, Marcel Verhoef, 2014-04-23 One of the most significant challenges in the development of embedded and cyber physical systems is the gap between the disciplines of software and control engineering In a marketplace where rapid innovation is essential engineers from both disciplines need to be able to explore system designs collaboratively allocating responsibilities to software and physical elements and analyzing trade offs between them To this end this book presents a framework that allows the very different kinds of design models discrete event DE models of software and continuous time CT models of the physical environment to be analyzed and simulated jointly based on common scenarios The individual chapters provide introductions to both sides of this co simulation technology and give a step by step guide to the methodology for designing and analyzing co models They are grouped into three parts Part I introduces the technical basis for collaborative modeling and simulation with the Crescendo technology Part II continues with different methodological guidelines for creating co models and analyzing them in different ways using case studies Part III then delves into more advanced topics and looks into the potential future of this technology in the area of cyber physical systems Finally

various appendices provide summaries of the VDM and 20 sim technologies a number of valuable design patterns applicable for co models and an acronym list along with indices and references to other literature By combining descriptions of the underlying theory with records of real engineers experience in using the framework on a series of case studies the book appeals to scientists and practitioners alike It is complemented by tools examples videos and other material on www.crescendotool.org Scientists researchers and graduate students working in embedded and cyber physical systems will learn the semantic foundations for collaborative modeling and simulation as well as the current capabilities and limitations of methods and tools in this field Practitioners will be able to develop an appreciation of the capabilities of the co modeling techniques to assess the benefits of more collaborative approaches to modeling and simulation and will benefit from the included guidelines and modeling patterns

The Engineering of Digital Twins John Fitzgerald, Cláudio Gomes, Peter Gorm Larsen, 2024-08-24 This book is about the engineering of Digital Twins DTs of cyber physical systems CPSs It goes behind the glossy image of DTs to help researchers and advanced professionals to ask and answer the fundamental questions underpinning the development of a DT What are the foundational concepts of the DT How do different engineering disciplines interact in creating a DT How should the physical and digital worlds be connected and how do the imperfections and faults inherent in both worlds affect the DT s qualities How can we use a DT to support decisions and how do we maintain it through life To this end the book is structured in five parts Foundations introduces the DT concept the potential benefits of DTs seen from a business perspective and foundations for DT engineering Models and Data presents the range of models and data that form the core assets of DTs for CPSs It covers ways in which models can be produced and calibrated and considers how data is derived from a CPS and communicated to its DT Next Services for Digital Twins details some of the main services that a DT provides by building on the assets of models and data including visualisation fault detection and diagnosis and support for decision making Realising Digital Twins then covers the realisation of DTs including a platform allowing engineers to construct DTs from reusable components Case studies in food production robotics and marine engineering are presented using a systematic framework that aligns with the DT engineering concepts introduced in the earlier parts of the book Eventually Advanced Topics in Digital Twins introduces advanced topics in delivering dependable DT enabled systems focusing on security and privacy the capacity for autonomy and a range of open research topics This book aims at researchers in DT technology and design including advanced master and doctoral students as well as engineering practitioners aiming to develop DTs The most common techniques described in the main text will be accessible via open source projects including further DT examples exercises and solutions as well as pointers to emerging standards frameworks and platforms Classroom materials exercises and solutions are available to lecturers through a dedicated Web site

Multiparadigm Programming in Mozart/Oz Peter Van Roy, 2005-03-01 This book constitutes the thoroughly refereed extended postproceedings of the Second International Mozart OZ Conference MOZ 2004 held in Charleroi Belgium in

October 2004 Besides the 23 papers taken from the workshop 2 invited papers were especially written for presentation in this book The papers are organized in topical sections on language based computer security computer science education software engineering human computer interfaces and the Web distributed programming grammars and natural language constraint programming and constraint applications Petri Nets and Other Models of Concurrency - ICATPN 2006 Susanna Donatelli,P.S. Thiagarajan,2006-06-21 This book constitutes the refereed proceedings of the 27th International Conference on Applications and Theory of Petri Nets and Other Models of Concurrency ICATPN 2006 held in Turku Finland in June 2006 The book presents 16 revised full papers and 6 revised tool papers together with 4 invited papers All current issues on research and development in the area of Petri nets and modeling of concurrent systems are addressed **FM 2016: Formal Methods** John Fitzgerald,Constance Heitmeyer,Stefania Gnesi,Anna Philippou,2016-11-06 This book constitutes the refereed proceedings of the 21st International Symposium on Formal Methods FM 2016 held in Limassol Cyprus in November 2016 The 38 full papers and 11 short papers presented together with one abstract of an invited talk and one invited presentation were carefully reviewed and selected from 162 submissions The broad topics of interest for FM include interdisciplinary formal methods formal methods in practice tools for formal methods role of formal methods in software and systems engineering theoretical foundations *Formal Models and Practical Tools for Information Systems Design* Hans-Jochen Schneider,1979 Tools for information system design and realization USE a methodology for the design and development of interactive information systems Properties of user requirements Logical and semantical properties of environmental situations for stating information requirements An event based design methodology supported Event directed program execution from declarative specifications End user tools for information systems requirement definition Constraint specification in evolutionary data base design A new system analysis method based on the STS socio technical system approach An approach for involving the users in the specification of information systems Verbal measures and inseperable multidimensional utility in system evaluation The role of the triggerin systematics A model and a language for functional specifications and evaluation of information systems dynamics Automatic Test-case Generation from Formal Models of Software Sanjai Rayadurgam,2004 *Distributed Computer Control Systems* ,1999 Distributed Computer Control Systems 1998 (DCCS '98) International Federation of Automatic Control,1999 Computer control systems are increasingly required to be highly dependable and to have deterministic timing properties Distributed architectures have the potential to meet this challenge The advantages of distributed computer control systems include the possibility of composing large systems out of pre tested components with small integration effort their well defined fault containment properties and their capacity to make effective use of mass produced silicon chips The IFAC Workshop series on Distributed Computer Control Systems DCCS highlights and traces the growth of key concepts in this field at their various stages of development Theoretical and practice oriented viewpoints receive equal emphasis and there is a creative blending of the disciplines of

computer science and control engineering The 1998 DCCS Workshop was notable for the attention given to true real time communication networks and protocols The complexity of the trade off between services dependability mechanisms and system level properties was highlighted and rigorous modelling and analysis methodologies were discussed Event triggered and time triggered protocols were contrasted Models for analysing and predicting response times in distributed systems and for predicting the effect of response time jitter on the performance of feedback control loops were presented The application of formal methods to the specification and development of safety critical control software also received much attention Distributed object methodologies and object request brokers were also highlighted as being promising approaches for the programming of large scale heterogeneous distributed systems Applications reported included control systems for traffic lights jet engines automobiles fully automatic trains and flexible manufacturing systems *27th Annual International Computer Software and Applications Conference* ,2003 In the COMPSAC tradition the proceedings spans a broad and diverse range of both technical and non technical topics from basic methodology and software process design to such practical concerns as liability risk and insurance issues Security, Steganography, and Watermarking of Multimedia Contents ,2005 *A Designer's Tool Kit* Preechaya Sittipunt,1994 Information Systems Design Methodologies T. William Olle,Henk G. Sol,A. A. Verrijn Stuart,1982 **Structuring Formal State-based Specifications for Reuse and the Development of Product Families** Jeffrey Michael Thompson,2002 **Mathematics of Program Construction** ,2004 *Models, Algebras and Logic of Engineering Software* M. Broy,Markus Pizka,2003 **FME ...** ,2005 **An Introductory Guide to EC Competition Law and Practice** Valentine Korah,1994

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