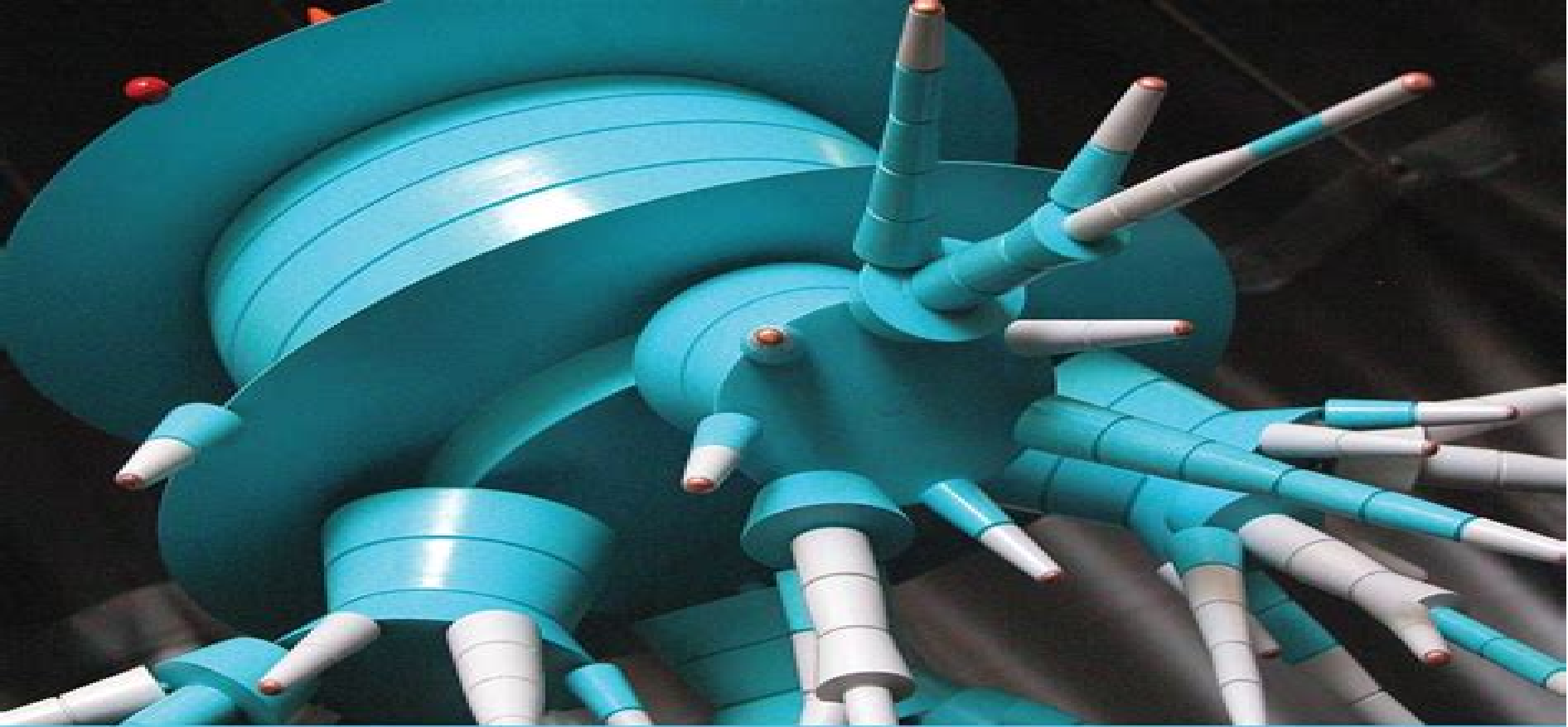




MODELING AND ANALYSIS OF COMMUNICATING SYSTEMS

Jan Friso Groote and Mohammad Reza Mousavi

Modeling And Analysis Of Communicating Systems

David Garduno Barrera, Michel Diaz



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Modeling and Analysis of Communicating Systems Jan Friso Groote, Mohammad Reza Mousavi, 2014-08-29 Rigorous theory and real world applications for modeling and analysis of the behavior of complex communicating computer systems Complex communicating computer systems computers connected by data networks and in constant communication with their environments do not always behave as expected This book introduces behavioral modeling a rigorous approach to behavioral specification and verification of concurrent and distributed systems It is among the very few techniques capable of modeling systems interaction at a level of abstraction sufficient for the interaction to be understood and analyzed Offering both a mathematically grounded theory and real world applications the book is suitable for classroom use and as a reference for system architects The book covers the foundation of behavioral modeling using process algebra transition systems abstract data types and modal logics Exercises and examples augment the theoretical discussion The book introduces a modeling language mCRL2 that enables concise descriptions of even the most intricate distributed algorithms and protocols Using behavioral axioms and such proof methods as confluence cones and foci readers will learn how to prove such algorithms equal to their specifications Specifications in mCRL2 can be simulated visualized or verified against their requirements An extensive mCRL2 toolset for mechanically verifying the requirements is freely available online this toolset has been successfully used to design and analyze industrial software that ranges from healthcare applications to particle accelerators at CERN Appendixes offer material on equations and notation as well as exercise solutions MODELING AND ANALYSIS OF COMMUNICATING SYSTEMS. GROOTE. MOUSAVI, 2016 **Communicating Systems with UML 2** David Garduno Barrera, Michel Diaz, 2013-02-07 This book gives a practical approach to modeling and analyzing communication protocols using UML 2 Network protocols are always presented with a point of view focusing on partial mechanisms and starting models This book aims at giving the basis needed for anybody to model and validate their own protocols It follows a practical approach and gives many examples for the description and analysis of well known basic network mechanisms for protocols The book firstly shows how to describe and validate the main protocol issues such as synchronization problems client server interactions layer organization and behavior etc in an easy and understandable way To do so the book considers and presents the main traditional network examples e g unidirectional flows full duplex communication error recovering alternating bit Finally it presents the outputs resulting from a few simulations of these UML models Other books usually only focus either on teaching UML or on analyzing network protocols however this book will allow readers to model network protocols using a new perspective and integrating these two views so facilitating their comprehension and development Any university student studying in the field of computing science or those working in telecommunications embedded systems or networking will find this book a very useful addition *Modelling and Analysis of Communicating Systems* J.F. Groote, 2013 **Computational Modeling and Simulation of Advanced Wireless Communication Systems** Agbotiname Lucky Imoize, Webert

Montlouis, Mohammad S. Obaidat, Segun I. Popoola, Mohammad Hammoudeh, 2024-11-29 The book covers the exploitation of computational models for effectively developing and managing large scale wireless communication systems The goal is to create and establish computational models for seamless human interaction and efficient decision making in beyond 5G wireless systems Computational Modeling and Simulation of Advanced Wireless Communication Systems looks to create and establish computational models for seamless human interaction and efficient decision making in the beyond 5G wireless systems This book presents the design and development of several computational modeling techniques and their applications in wireless communication systems It examines shortcomings and limitations of the existing computational models and offers solutions to revamp the traditional architecture toward addressing the vast network issues in wireless systems The book addresses the need to design efficient computational and simulation models to address several issues in wireless communication systems such as interference pathloss delay traffic outage and so forth It discusses how theoretical mathematical and experimental results are integrated for optimal system performance to enhance the quality of service for mobile subscribers Further the book is intended for industry and academic researchers scientists and engineers in the fields of wireless communications and ICTs It is structured to present a practical guide to wireless communication engineers IT practitioners researchers students and other professionals

Testing of Communicating Systems

Ferhat Khendek, Rachida Dssouli, 2005-05-10 This volume contains the proceedings of the 17th IFIP TC6 WG6 1 International Conference on Testing of Communicating Systems TestCom 2005 The conference was held at Concordia University Montreal Canada from May 31 to June 2 2005 TestCom 2005 was organized by Concordia University and was sponsored by IFIP

Quantitative Evaluation of Computing and Communication Systems Heinz Beilner, Falko Bause, 1995-09-13 This book constitutes the proceedings of the 8th International Conference on Modelling Techniques and Tools for Computer Performance Evaluation Performance Tools 95 and of the 8th GI ITG Conference on Measuring Modelling and Evaluating Computing and Communication Systems MMB 95 held jointly in Heidelberg Germany in September 1995 The volume presents 26 full refereed papers selected from a total of 86 submissions together with two invited contributions The scope of the papers includes measurement and model based approaches for quantitative systems assessment reports on theoretical and methodological progress and novel and improved assessment techniques and their tool implementations and applications

Real-Time Modelling and Processing for Communication Systems

Muhammad Alam, Wael Dghais, Yuanfang Chen, 2017-12-27 This book presents cutting edge work on real time modelling and processing a highly active research field in both the research and industrial domains Going beyond conventional real time systems major efforts are required to develop accurate and computationally efficient real time modelling algorithms and design automation tools that reflect the technological advances in high speed and ultra low power transceiver communication architectures based on nanoscale devices The book addresses basic and more advanced topics such as I O buffer circuits for ensuring reliable chip to chip

communication I O buffer behavioural modelling multiport empirical models for memory interfaces compact behavioural modelling for memristive devices and resource reservation modelling for distributed embedded systems The respective chapters detail new research findings new models algorithms implementations and simulations of the above mentioned topics As such the book will help both graduate students and researchers understand the latest research into real time modelling and processing

The Design of Communicating Systems C.J. Koomen,1991-09-30 The professional schools will resume their professional responsibilities just to the degree that they can discover a science of design a body of intellectually tough partly formalizable partly empirical teachable doctrine about the design process H A Simon 1968 Design is aimed at the transformation or translation of a specification or high level description into a description in terms of some real world primitives As such it involves the removal of the uncertainty about the way in which a required system can be realized To optimally support the design of systems we must look at the design process as a whole and at the strong relationship that exists between a designer the applied design method the required design tools and the ways in which designs can be expressed This book focuses on that relationship The application field we are concerned with is the design of systems in which the communication between system elements is a major design feature Examples of such communicating systems are communication protocols telephone exchange control systems process control systems highly modular systems embedded software interactive systems and VLSI systems In summary we are concerned with systems in which concurrency plays a major role concurrency defines the mutual relationship between the activities in the different parts of a system or within a collection of systems

Automated Validation & Verification of UML/OCL Models Using Satisfiability Solvers Nils Przigoda,Robert Wille,Judith Przigoda,Rolf Drechsler,2018-01-22 This book provides a comprehensive discussion of UML OCL methods and design flow for automatic validation and verification of hardware and software systems While the presented flow focuses on using satisfiability solvers the authors also describe how these methods can be used for any other automatic reasoning engine Additionally the design flow described is applied to a broad variety of validation and verification tasks The authors also cover briefly how non functional properties such as timing constraints can be handled with the described flow

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