

DISCRETE-EVENT MODELING AND SIMULATION

Theory and Applications

Edited by

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Discrete Event Modeling And Simulation Theory And Applications Computational Analysis Synthesis And Design Of Dynamic Systems

Justyna Zander, Pieter J. Mosterman



Discrete Event Modeling And Simulation Theory And Applications Computational Analysis Synthesis And Design Of Dynamic Systems:

Discrete-Event Modeling and Simulation Gabriel A. Wainer, 2017-12-19 Complex artificial dynamic systems require advanced modeling techniques that can accommodate their asynchronous concurrent and highly non linear nature Discrete Event systems Specification DEVS provides a formal framework for hierarchical construction of discrete event models in a modular manner allowing for model re use and reduced development time Discrete Event Modeling and Simulation presents a practical approach focused on the creation of discrete event applications The book introduces the CD tool an open source framework that enables the simulation of discrete event models After setting up the basic theory of DEVS and Cell DEVS the author focuses on how to use the CD tool to define a variety of models in biology physics chemistry and artificial systems They also demonstrate how to map different modeling techniques such as Finite State Machines and VHDL to DEVS The in depth coverage elaborates on the creation of simulation software for DEVS models and the 3D visualization environments associated with these tools A much needed practical approach to creating discrete event applications this book offers world class instruction on the field s most useful modeling tools

Real-Time Simulation Technologies: Principles, Methodologies, and Applications Katalin Popovici, Pieter J. Mosterman, 2017-12-19 Real Time Simulation Technologies Principles Methodologies and Applications is an edited compilation of work that explores fundamental concepts and basic techniques of real time simulation for complex and diverse systems across a broad spectrum Useful for both new entrants and experienced experts in the field this book integrates coverage of detailed theory acclaimed methodological approaches entrenched technologies and high value applications of real time simulation all from the unique perspectives of renowned international contributors Because it offers an accurate and otherwise unattainable assessment of how a system will behave over a particular time frame real time simulation is increasingly critical to the optimization of dynamic processes and adaptive systems in a variety of enterprises These range in scope from the maintenance of the national power grid to space exploration to the development of virtual reality programs and cyber physical systems This book outlines how for these and other undertakings engineers must assimilate real time data with computational tools for rapid decision making under uncertainty Clarifying the central concepts behind real time simulation tools and techniques this one of a kind resource Discusses the state of the art important challenges and high impact developments in simulation technologies Provides a basis for the study of real time simulation as a fundamental and foundational technology Helps readers develop and refine principles that are applicable across a wide variety of application domains As science moves toward more advanced technologies unconventional design approaches and unproven regions of the design space simulation tools are increasingly critical to successful design and operation of technical systems in a growing number of application domains This must have resource presents detailed coverage of real time simulation for system design parallel and distributed simulations industry

tools and a large set of applications *Discrete Event Modeling and Simulation Technologies* Hessam S. Sarjoughian, Francois E. Cellier, 2013-03-09 The initial ideas behind this edited volume started in spring of 1998 some two years before the sixtieth birthday of Bernard P Zeigler The idea was to bring together distinguished researchers colleagues and former students of Professor Zeigler to present their latest findings at the AIS 2000 conference During the spring of 1999 the initial ideas evolved into creating a volume of articles surrounding seminal concepts pertaining to modeling and simulation as proposed developed and advocated by Professor Zeigler throughout his scientific career Also included would be articles describing progress covering related aspects of software engineering and artificial intelligence As this volume is emphasizing concepts and ideas spawned by the work of Bernard P Zeigler it is most appropriate to offer a biographical sketch of his scientific life thus putting into a historical perspective the contributions presented in this volume as well as new research directions that may lie ahead Bernard P Zeigler was born March 5 1940 in Montreal Quebec Canada where he obtained his bachelor s degree in engineering physics in 1962 from McGill University Two years later having completed his MS degree in electrical engineering at the Massachusetts Institute of Technology he spent a year at the National Research Council in Ottawa Returning to academia he became a Ph D student in computer and communication sciences at the University of Michigan Ann Arbor **Model-Based Testing for Embedded Systems** Justyna Zander, Ina Schieferdecker, Pieter J. Mosterman, 2017-12-19 What the experts have to say about Model Based Testing for Embedded Systems This book is exactly what is needed at the exact right time in this fast growing area From its beginnings over 10 years ago of deriving tests from UML statecharts model based testing has matured into a topic with both breadth and depth Testing embedded systems is a natural application of MBT and this book hits the nail exactly on the head Numerous topics are presented clearly thoroughly and concisely in this cutting edge book The authors are world class leading experts in this area and teach us well used and validated techniques along with new ideas for solving hard problems It is rare that a book can take recent research advances and present them in a form ready for practical use but this book accomplishes that and more I am anxious to recommend this in my consulting and to teach a new class to my students Dr Jeff Offutt professor of software engineering George Mason University Fairfax Virginia USA This handbook is the best resource I am aware of on the automated testing of embedded systems It is thorough comprehensive and authoritative It covers all important technical and scientific aspects but also provides highly interesting insights into the state of practice of model based testing for embedded systems Dr Lionel C Briand IEEE Fellow Simula Research Laboratory Lysaker Norway and professor at the University of Oslo Norway As model based testing is entering the mainstream such a comprehensive and intelligible book is a must read for anyone looking for more information about improved testing methods for embedded systems Illustrated with numerous aspects of these techniques from many contributors it gives a clear picture of what the state of the art is today Dr Bruno Leguard CTO of Smartesting professor of Software Engineering at the University of Franche Comt Besan on France and co

author of Practical Model Based Testing **Multi-Agent Systems** Adelinde M. Uhrmacher, Danny Weyns, 2018-10-08

Methodological Guidelines for Modeling and Developing MAS Based Simulations The intersection of agents modeling simulation and application domains has been the subject of active research for over two decades Although agents and simulation have been used effectively in a variety of application domains much of the supporting research remains scattered in the literature too often leaving scientists to develop multi agent system MAS models and simulations from scratch Multi Agent Systems Simulation and Applications provides an overdue review of the wide ranging facets of MAS simulation including methodological and application oriented guidelines This comprehensive resource reviews two decades of research in the intersection of MAS simulation and different application domains It provides scientists and developers with disciplined engineering approaches to modeling and developing MAS based simulations After providing an overview of the field s history and its basic principles as well as cataloging the various simulation engines for MAS the book devotes three sections to current and emerging approaches and applications Simulation for MAS explains simulation support for agent decision making the use of simulation for the design of self organizing systems the role of software architecture in simulating MAS and the use of simulation for studying learning and stigmergic interaction MAS for Simulation discusses an agent based framework for symbiotic simulation the use of country databases and expert systems for agent based modeling of social systems crowd behavior modeling agent based modeling and simulation of adult stem cells and agents for traffic simulation Tools presents a number of representative platforms and tools for MAS and simulation including Jason James II SeSAM and RoboCup Rescue Complete with over 200 figures and formulas this reference book provides the necessary overview of experiences with MAS simulation and the tools needed to exploit simulation in MAS for future research in a vast array of applications including home security computational systems biology and traffic management **Discrete-Event Modeling and Simulation** Gabriel A. Wainer, Pieter J. Mosterman, 2018-09-03 Collecting the work of the foremost scientists in the field Discrete Event Modeling and Simulation Theory and Applications presents the state of the art in modeling discrete event systems using the discrete event system specification DEVS approach It introduces the latest advances recent extensions of formal techniques and real world examples of various applications The book covers many topics that pertain to several layers of the modeling and simulation architecture It discusses DEVS model development support and the interaction of DEVS with other methodologies It describes different forms of simulation supported by DEVS the use of real time DEVS simulation the relationship between DEVS and graph transformation the influence of DEVS variants on simulation performance and interoperability and composability with emphasis on DEVS standardization The text also examines extensions to DEVS new formalisms and abstractions of DEVS models as well as the theory and analysis behind real world system identification and control To support the generation and search of optimal models of a system a framework is developed based on the system entity structure and its transformation to DEVS simulation models In addition the book explores numerous interesting

examples that illustrate the use of DEVS to build successful applications including optical network on chip construction building design process control workflow systems and environmental models A one stop resource on advances in DEVS theory applications and methodology this volume offers a sampling of the best research in the area a broad picture of the DEVS landscape and trend setting applications enabled by the DEVS approach It provides the basis for future research discoveries and encourages the development of new applications

Building Software for Simulation James J.

Nutaro, 2011-03-23 Building Software for Simulation A unique guide to the design and implementation of simulation software This book offers a concise introduction to the art of building simulation software collecting the most important concepts and algorithms in one place Written for both individuals new to the field of modeling and simulation as well as experienced practitioners this guide explains the design and implementation of simulation software used in the engineering of large systems while presenting the relevant mathematical elements concept discussions and code development The book approaches the topic from the perspective of Zeigler's theory of modeling and simulation introducing the theory's fundamental concepts and showing how to apply them to engineering problems Readers will learn five necessary skills for building simulations of complicated systems Working with fundamental abstractions for simulating dynamic systems Developing basic simulation algorithms for continuous and discrete event models Combining continuous and discrete event simulations into a coherent whole Applying strategies for testing a simulation Understanding the theoretical foundations of the modeling constructs and simulation algorithms The central chapters of the book introduce explain and demonstrate the elements of the theory that are most important for building simulation tools They are bracketed by applications to robotics control and communications and electric power systems these comprehensive examples clearly illustrate how the concepts and algorithms are put to use Readers will explore the design of object oriented simulation programs simulation using multi core processors and the integration of simulators into larger software systems The focus on software makes this book particularly useful for computer science and computer engineering courses in simulation that focus on building simulators It is indispensable reading for undergraduate and graduate students studying modeling and simulation as well as for practicing scientists and engineers involved in the development of simulation tools

Model-Based Design for Embedded Systems

Gabriela Nicolescu, Pieter J. Mosterman, 2018-09-03 The demands of increasingly complex embedded systems and associated performance computations have resulted in the development of heterogeneous computing architectures that often integrate several types of processors analog and digital electronic components and mechanical and optical components all on a single chip As a result now the most prominent challenge for the design automation community is to efficiently plan for such heterogeneity and to fully exploit its capabilities A compilation of work from internationally renowned authors Model Based Design for Embedded Systems elaborates on related practices and addresses the main facets of heterogeneous model based design for embedded systems including the current state of the art important challenges and the latest trends Focusing on

computational models as the core design artifact this book presents the cutting edge results that have helped establish model based design and continue to expand its parameters The book is organized into three sections Real Time and Performance Analysis in Heterogeneous Embedded Systems Design Tools and Methodology for Multiprocessor System on Chip and Design Tools and Methodology for Multidomain Embedded Systems The respective contributors share their considerable expertise on the automation of design refinement and how to relate properties throughout this refinement while enabling analytic and synthetic qualities They focus on multi core methodological issues real time analysis and modeling and validation taking into account how optical electronic and mechanical components often interface Model based design is emerging as a solution to bridge the gap between the availability of computational capabilities and our inability to make full use of them yet This approach enables teams to start the design process using a high level model that is gradually refined through abstraction levels to ultimately yield a prototype When executed well model based design encourages enhanced performance and quicker time to market for a product Illustrating a broad and diverse spectrum of applications such as in the automotive aerospace health care consumer electronics this volume provides designers with practical readily adaptable modeling solutions for their own practice

Advances in Intelligent Modelling and Simulation Aleksander Byrski,Zuzana Oplatková,Marco Carvalho,Marek Kisiel-Dorohinicki,2012-04-25 The human capacity to abstract complex systems and phenomena into simplified models has played a critical role in the rapid evolution of our modern industrial processes and scientific research As a science and an art Modelling and Simulation have been one of the core enablers of this remarkable human trace and have become a topic of great importance for researchers and practitioners This book was created to compile some of the most recent concepts advances challenges and ideas associated with Intelligent Modelling and Simulation frameworks tools and applications The first chapter discusses the important aspects of a human interaction and the correct interpretation of results during simulations The second chapter gets to the heart of the analysis of entrepreneurship by means of agent based modelling and simulations The following three chapters bring together the central theme of simulation frameworks first describing an agent based simulation framework then a simulator for electrical machines and finally an airborne network emulation environment The two subsequent chapters discuss power distribution networks from different points of view anticipation and optimization of multi echelon inventory policy After that the book includes also a group of chapters discussing the mathematical modelling supported by verification simulations and a set of chapters with models synthesised by means of artificial intelligence tools and complex automata framework Lastly the book includes a chapter introducing the use of graph grammar model for generation of three dimensional computational meshes and a chapter focused on the experimental and computational results regarding simulation of aero engine vortexes Authors believe that this book is a valuable reference to researchers and practitioners in the field as well as an inspiration to those interested in the area of Intelligent Modelling and Simulation

Multi-Agent Systems and Agreement Technologies Francesco Belardinelli,Estefanía

Argente,2018-10-13 This book constitutes the revised selected papers from the 15th European Conference on Multi Agent Systems EUMAS 2017 and the 5th International Conference on Agreement Technologies AT 2017 held in Evry France in December 2017 The 28 full papers 3 short papers and 2 invited papers for EUMAS and the 14 full papers and 2 short papers for AT presented in this volume were carefully reviewed and selected from a total of 76 submissions The papers cover thematic areas like agent based modelling logic and formal methods argumentation and rational choice simulation games negotiation planning and coalitions algorithms and frameworks applications and philosophical and theoretical studies

Discrete-Event Modeling and Simulation Gabriel A. Wainer,2017-12-19 Complex artificial dynamic systems require advanced modeling techniques that can accommodate their asynchronous concurrent and highly non linear nature Discrete Event systems Specification DEVS provides a formal framework for hierarchical construction of discrete event models in a modular manner allowing for model re use and reduced development time Discrete Event Modeling and Simulation presents a practical approach focused on the creation of discrete event applications The book introduces the CD tool an open source framework that enables the simulation of discrete event models After setting up the basic theory of DEVS and Cell DEVS the author focuses on how to use the CD tool to define a variety of models in biology physics chemistry and artificial systems They also demonstrate how to map different modeling techniques such as Finite State Machines and VHDL to DEVS The in depth coverage elaborates on the creation of simulation software for DEVS models and the 3D visualization environments associated with these tools A much needed practical approach to creating discrete event applications this book offers world class instruction on the field s most useful modeling tools

Computation for Humanity Justyna Zander,Pieter J. Mosterman,2018-10-03 The exponential progress and accessibility of computing has vastly increased data flows and revolutionized the practice of science engineering and communication Computing plays a critical role in advancing research across almost every scientific discipline Computation for Humanity Information Technology to Advance Society is a guide for the creation of services products and tools that facilitate support and enhance progress of humanity toward more sustainable life This book Provides a deep understanding of the practical applications of computation to solve human machine problems Delivers insight into theoretical approaches in an accessible manner Provides a comprehensive overview of computational science and engineering applications in selected disciplines Crosses the boundaries between different domains and shows how they interrelate and complement one another Focuses on grand challenges and issues that matter for the future of humanity Shows different perspectives of computational thinking understanding and reasoning Provides a basis for scientific discoveries and enables adopting scientific theories and engineering practices from other disciplines Takes a step back to provide a human related abstraction level that is not ultimately seen in pure technological elaborations collections The editors provide a collection of numerous computation related projects that form a foundation from which to cross pollinate between different disciplines and further extensive collaboration They present a clear and profound understanding of

computing in today's world and provide fundamental solutions to some of the most pertinent humanity related problems

Modeling and Control of Discrete-event Dynamic Systems Branislav Hruz, MengChu Zhou, 2007-08-17 Discrete event dynamic systems DEDs permeate our world They are of great importance in modern manufacturing processes transportation and various forms of computer and communications networking This book begins with the mathematical basics required for the study of DEDs and moves on to present various tools used in their modeling and control Industrial examples illustrate the concepts and methods discussed making this book an invaluable aid for students embarking on further courses in control manufacturing engineering or computer studies **Soft Computing and Intelligent Systems** Madan M.

Gupta, 1999-10-28 The field of soft computing is emerging from the cutting edge research over the last ten years devoted to fuzzy engineering and genetic algorithms The subject is being called soft computing and computational intelligence With acceptance of the research fundamentals in these important areas the field is expanding into direct applications through engineering and systems science This book covers the fundamentals of this emerging field as well as direct applications and case studies There is a need for practicing engineers computer scientists and system scientists to directly apply fuzzy engineering into a wide array of devices and systems *Handbook of Hybrid Systems Control* Jan Lunze, Françoise

Lamnabhi-Lagarigue, 2009-10-15 Setting out core theory and reviewing a range of new methods theoretical problems and applications this handbook shows how hybrid dynamical systems can be modelled and understood Sixty expert authors involved in the recent research activities and industrial application studies provide practical insights on topics ranging from the theoretical investigations over computer aided design to applications in energy management and the process industry Structured into three parts the book opens with a thorough introduction to hybrid systems theory illustrating new dynamical phenomena through numerous examples Part II then provides a survey of key tools and tool integration activities Finally Part III is dedicated to applications implementation issues and system integration considering different domains such as industrial control automotive systems and digital networks Three running examples are referred to throughout the book together with numerous illustrations helping both researchers and industry professionals to understand complex theory recognise problems and find appropriate solutions *Computer Aided Design in Control Systems 1988* Zhen-Yu Chen, 2017-05-03 This

volume contains 73 papers presenting the state of the art in computer aided design in control systems CADCS The latest information and exchange of ideas presented at the Symposium illustrates the development of computer aided design science and technology within control systems The Proceedings contain six plenary papers and six special invited papers and the remainder are divided into five themes CADCS packages CADCS software and hardware systems design methods CADCS expert systems CADCS applications with finally a discussion on CADCS in education and research *Recent Advances in Computational Intelligence in Defense and Security* Rami Abielmona, Rafael Falcon, Nur Zincir-Heywood, Hussein A.

Abbass, 2015-12-21 This volume is an initiative undertaken by the IEEE Computational Intelligence Society's Task Force on

Security Surveillance and Defense to consolidate and disseminate the role of CI techniques in the design development and deployment of security and defense solutions Applications range from the detection of buried explosive hazards in a battlefield to the control of unmanned underwater vehicles the delivery of superior video analytics for protecting critical infrastructures or the development of stronger intrusion detection systems and the design of military surveillance networks Defense scientists industry experts academicians and practitioners alike will all benefit from the wide spectrum of successful applications compiled in this volume Senior undergraduate or graduate students may also discover uncharted territory for their own research endeavors

Scientific and Technical Aerospace Reports ,1995 *Radio Receiver Design* Robert Dixon,2024-11-01 Provides a fundamental understanding of current as well as future concepts and techniques essential for systematically defining and manufacturing a receiver that is flexible yet functional in today s world An excellent introduction to communications and the role of receivers in conveying information

Stochastic Large-Scale Engineering Systems Spyros G. Tzafestas,2020-08-18 This book focuses on the class of large scale stochastic systems which has dominated the attention of many academic and research groups It discusses distributed sensor networks decentralized detection theory and econometric models with integrated and decentralized policymakers

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