

MODELING AND CONTROL OF LOGICAL DISCRETE EVENT SYSTEMS

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Modeling And Control Of Logical Discrete Event Systems

Jörg Flum, Erich Grädel, Thomas Wilke



Modeling And Control Of Logical Discrete Event Systems:

Modeling and Control of Logical Discrete Event Systems Ratnesh Kumar,Vijay K. Garg,2012-10-03 The field of discrete event systems has emerged to provide a formal treatment of many of the man made systems such as manufacturing systems communication networks automated traffic systems database management systems and computer systems that are event driven highly complex and not amenable to the classical treatments based on differential or difference equations Discrete event systems is a growing field that utilizes many interesting mathematical models and techniques In this book we focus on a high level treatment of discrete event systems where the order of events rather than their occurrence times is the principal concern Such treatment is needed to guarantee that the system under study meets desired logical goals In this framework discrete event systems are modeled by formal languages or equivalently by state machines The field of logical discrete event systems is an interdisciplinary field it includes ideas from computer science control theory and operations research Our goal is to bring together in one book the relevant techniques from these fields This is the first book of this kind and our hope is that it will be useful to professionals in the area of discrete event systems since most of the material presented has appeared previously only in journals The book is also designed for a graduate level course on logical discrete event systems It contains all the necessary background material in formal language theory and lattice theory The only prerequisite is some degree of mathematical maturity

Discrete Event Systems: Modeling and Control S. Balemi,P. Kozák,R. Smedinga,2012-12-06 Research of discrete event systems is strongly motivated by applications in flexible manufacturing in traffic control and in concurrent and real time software verification and design just to mention a few important areas Discrete event system theory is a promising and dynamically developing area of both control theory and computer science Discrete event systems are systems with non numerically valued states inputs and outputs The approaches to the modelling and control of these systems can be roughly divided into two groups The first group is concerned with the automatic design of controllers from formal specifications of logical requirements This research owes much to the pioneering work of P J Ramadge and W M Wonham at the beginning of the eighties The second group deals with the analysis and optimization of system throughput waiting time and other performance measures for discrete event systems The present book contains selected papers presented at the Joint Workshop on Discrete Event Systems WODES 92 held in Prague Czechoslovakia on August 26-28 1992 and organized by the Institute of Information Theory and Automation of the Czechoslovak Academy of Sciences Prague Czechoslovakia by the Automatic Control Laboratory of the Swiss Federal Institute of Technology ETH Zurich Switzerland and by the Department of Computing Science of the University of Groningen Groningen the Netherlands

Introduction to Discrete Event Systems Christos G. Cassandras,Stéphane Lafortune,2021-11-11 This unique textbook comprehensively introduces the field of discrete event systems offering a breadth of coverage that makes the material accessible to readers of varied backgrounds The book emphasizes a unified modeling

framework that transcends specific application areas linking the following topics in a coherent manner language and automata theory supervisory control Petri net theory Markov chains and queueing theory discrete event simulation and concurrent estimation techniques Topics and features detailed treatment of automata and language theory in the context of discrete event systems including application to state estimation and diagnosis comprehensive coverage of centralized and decentralized supervisory control of partially observed systems timed models including timed automata and hybrid automata stochastic models for discrete event systems and controlled Markov chains discrete event simulation an introduction to stochastic hybrid systems sensitivity analysis and optimization of discrete event and hybrid systems new in the third edition opacity properties enhanced coverage of supervisory control overview of latest software tools This proven textbook is essential to advanced level students and researchers in a variety of disciplines where the study of discrete event systems is relevant control communications computer engineering computer science manufacturing engineering transportation networks operations research and industrial engineering Christos G Cassandras is Distinguished Professor of Engineering Professor of Systems Engineering and Professor of Electrical and Computer Engineering at Boston University St phane Lafortune is Professor of Electrical Engineering and Computer Science at the University of Michigan Ann Arbor *Discrete Event Systems 2004 (WODES'04)* Janan Zaytoon, 2005-12-22 Approx 484 pages Management and Control of Production and Logistics 2004 (MCPL 2004) Gaston Lefranc, 2006-01-30 **Modeling, Control and Optimization of Complex Systems** WeiBo Gong, Leyuan Shi, 2012-12-06 Modeling Control And Optimization Of Complex Systems is a collection of contributions from leading international researchers in the fields of dynamic systems control theory and modeling These papers were presented at the Symposium on Modeling and Optimization of Complex Systems in honor of Larry Yu Chi Ho in June 2001 They include exciting research topics such as modeling of complex systems power control in ad hoc wireless networks adaptive control using multiple models constrained control linear quadratic control discrete events Markov decision processes and reinforcement learning optimal control for discrete event and hybrid systems optimal representation and visualization of multivariate data and functions in low dimensional spaces **Estimation and Inference in Discrete Event Systems** Christoforos N. Hadjicostis, 2019-10-02 Estimation and Inference in Discrete Event Systems chooses a popular model for emerging automation systems finite automata under partial observation and focuses on a comprehensive study of the key problems of state estimation and event inference The text includes treatment of current delayed and initial state estimation Related applications for assessing and enforcing resiliency fault detection and diagnosis and security privacy and opacity properties are discussed enabling the reader to apply these techniques in a variety of emerging applications among them automated manufacturing processes intelligent vehicle highway systems and autonomous vehicles The book provides a systematic development of recursive algorithms for state estimation and event inference The author also deals with the verification of pertinent properties such as the ability to determine the exact state of a system detectability the

ability to ensure that certain classes of faults can be detected identified diagnosability and the ability to ensure that certain internal state variables of the system remain hidden from the outside world regardless of the type of activity that is taking place opacity This book allows students researchers and practicing engineers alike to grasp basic aspects of state estimation in discrete event systems aspects like distributivity and probabilistic inference quickly and without having to master the entire breadth of models that are available in the literature *Control Systems Design 2003 (CSD '03)* Stefan Kozak, Mikulas Huba, 2004-04 The material presented in this volume represents current ideas knowledge experience and research results in various fields of control system design The Mechanical Systems Design Handbook Yildirim Hurmuzlu, Osita D.I. Nwokah, 2017-12-19 With a specific focus on the needs of the designers and engineers in industrial settings The Mechanical Systems Design Handbook Modeling Measurement and Control presents a practical overview of basic issues associated with design and control of mechanical systems In four sections each edited by a renowned expert this book answers diverse questions fundamental to the successful design and implementation of mechanical systems in a variety of applications Manufacturing addresses design and control issues related to manufacturing systems From fundamental design principles to control of discrete events machine tools and machining operations to polymer processing and precision manufacturing systems Vibration Control explores a range of topics related to active vibration control including piezoelectric networks the boundary control method and semi active suspension systems Aerospace Systems presents a detailed analysis of the mechanics and dynamics of tensegrity structures Robotics offers encyclopedic coverage of the control and design of robotic systems including kinematics dynamics soft computing techniques and teleoperation Mechanical systems designers and engineers have few resources dedicated to their particular and often unique problems The Mechanical Systems Design Handbook clearly shows how theory applies to real world challenges and will be a welcomed and valuable addition to your library Formal Methods for Industrial Critical Systems Gwen Salaün, Bernhard Schätz, 2011-09-19 This book constitutes the proceedings of the 16th International Workshop on Formal Methods for Industrial Critical Systems FMICS 2011 held in Trento Italy in August 2011 The 16 papers presented together with 2 invited talks were carefully reviewed and selected from 39 submissions The aim of the FMICS workshop series is to provide a forum for researchers who are interested in the development and application of formal methods in industry It also strives to promote research and development for the improvement of formal methods and tools for industrial applications **Object-Oriented Computer Simulation of Discrete-Event Systems** Jerzy Tyszer, 1999-05-31 Object Oriented Computer Simulation of Discrete Event Systems offers a comprehensive presentation of a wide repertoire of computer simulation techniques available to the modelers of dynamic systems Unlike other books on simulation this book includes a complete and balanced description of all essential issues relevant to computer simulation of discrete event systems and it teaches simulation users how to design program and exploit their own computer simulation models In addition it uses the object oriented methodology throughout the book as its main

programming platform The reader is expected to have some background in the theory of probability and statistics and only a little programming experience in C as the book is not tied down to any particular simulation language The book also provides 50 complete simulation problems to assist with writing such simulation programs Object Oriented Computer Simulation of Discrete Event Systems demonstrates the basic and generic concepts used in computer simulation of discrete event systems in a comprehensive uniform and self contained manner

CONCUR '98 Concurrency Theory Davide Sangiorgi, Robert de Simone, 1998-08-19 This book constitutes the refereed proceedings of the 9th International Conference on Concurrency Theory CONCUR 98 held in Nice France in September 1998 The 35 revised full papers presented were carefully selected from a total of 104 submissions Also presented are five invited contributions Among the topics covered are moduls of computation and semantic domains process algebras Petri Nets event structures real time systems hybrid systems model checking verification techniques refinement rewriting typing systems and algorithms etc

Formal Approaches to Agent-Based Systems Michael G. Hinchey, James L. Rash, Walter F. Truszkowski, Christopher Rouff, Diana Gordon-Spears, 2003-07-29 The idea of a FAABS workshop was first conceived in 1998 at the NASA Goddard Space Flight Center while the Agent Technology Development Group in the Advanced Architectures and Automation Branch Code 588 was developing a prototype agent community to automate satellite ground operations While developing this system several race conditions arose within and between agents Due to the complexity of the agents and the communications between them it was decided that a formal approach was needed to specify the agents and the communications between them so that the system could be checked for additional errors A formal model of the inter agent communications was developed with the expectation that this would enable us to find more errors Success in this convinced us of the importance of using formal methods to model agent based systems To share our own experiences and to learn how others were approaching these issues we decided to hold a workshop on formal methods and agent based systems The response was overwhelming The result was the first FAABS workshop which was held at the NASA Goddard Space Flight Center Posters paper presentations panels and an invited talk by J Moore stimulated much discussion and subsequent collaboration

Abstract State Machines, Alloy, B, VDM, and Z John Derrick, John Fitzgerald, Stefania Gnesi, Sarfraz Khurshid, Michael Leuschel, Steve Reeves, Elvinia Riccobene, 2012-06-26 This book constitutes the proceedings of the Third International Conference on Abstract State Machines B VDM and Z which took place in Pisa Italy in June 2012 The 20 full papers presented together with 2 invited talks and 13 short papers were carefully reviewed and selected from 59 submissions The ABZ conference series is dedicated to the cross fertilization of five related state based and machine based formal methods Abstract State Machines ASM Alloy B VDM and Z They share a common conceptual foundation and are widely used in both academia and industry for the design and analysis of hardware and software systems The main goal of this conference series is to contribute to the integration of these formal methods clarifying their commonalities and differences to better understand how to combine different approaches for

accomplishing the various tasks in modeling experimental validation and mathematical verification of reliable high quality hardware software systems

Logic and Automata Jörg Flum, Erich Grädel, Thomas Wilke, 2008 Mathematical logic and automata theory are two scientific disciplines with a fundamentally close relationship The authors of Logic and Automata take the occasion of the sixtieth birthday of Wolfgang Thomas to present a tour d horizon of automata theory and logic The twenty papers in this volume cover many different facets of logic and automata theory emphasizing the connections to other disciplines such as games algorithms and semigroup theory as well as discussing current challenges in the field

Formal Aspects of Component Software Luis Soares Barbosa, Markus Lumpe, 2012-03-09 This book constitutes revised selected papers of the 7th International Workshop on Formal Aspects of Component Software FACS 2010 held in Guimarães Portugal in October 2010 The 13 full papers and 4 short papers presented together with 1 panel discussion and 2 invited talks were carefully reviewed and selected from 37 submissions The workshop seeks to develop a better understanding on how formal methods can or should be used for component based software development to succeed

Synthesis and Control of Discrete Event Systems Benoît Caillaud, Philippe Darondeau, Luciano Lavagno, Xiaolan Xie, 2013-04-17 This book aims at providing a view of the current trends in the development of research on Synthesis and Control of Discrete Event Systems Papers collected in this volume are based on a selection of talks given in June and July 2001 at two independent meetings the Workshop on Synthesis of Concurrent Systems held in Newcastle upon Tyne as a satellite event of ICATPN ICACSD and organized by Ph Darondeau and L Lavagno and the Symposium on the Supervisory Control of Discrete Event Systems SCODES held in Paris as a satellite event of CAV and organized by B Caillaud and X Xie Synthesis is a generic term that covers all procedures aiming to construct from specifications given as input objects matching these specifications Theories and applications of synthesis have been studied and developed for long in connection with logics programming automata discrete event systems and hardware circuits Logics and programming are outside the scope of this book whose focus is on Discrete Event Systems and Supervisory Control The stress today in this field is on a better applicability of theories and algorithms to practical systems design Coping with decentralization or distribution and caring for an efficient realization of the synthesized systems or controllers are of the utmost importance in areas so diverse as the supervision of embedded or manufacturing systems or the implementation of protocols in software or in hardware

Web Services and Formal Methods Marco Carbone, Jean-Marc Petit, 2012-04-23 This book constitutes the thoroughly refereed post proceedings of the 8th International Workshop on Web Services and Formal Methods WS FM 2011 held in Clermont Ferrand France in September 2011 The workshop was co located with the 9th International Conference on Business Process Management BPM 2011 The 9 full papers presented were carefully reviewed and selected from 14 submissions They deal with service oriented computing SOC cloud computing and formal methods

Hybrid Systems III Rajeev Alur, Thomas A. Henzinger, Eduardo D. Sontag, 1996-04-24 This reference book documents the scientific outcome of the DIMACS SYCON Workshop on Verification

and Control of Hybrid Systems held at Rutgers University in New Brunswick NJ in October 1995 A hybrid system consists of digital devices that interact with analog environments Computer science contributes expertise on the analog aspects of this emerging field of interdisciplinary research and design The 48 revised full papers included were strictly refereed they present the state of the art in this dynamic field with contributions by leading experts Also available are the predecessor volumes published in the same series as LNCS 999 and LNCS 736 *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

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Table of Contents Modeling And Control Of Logical Discrete Event Systems

1. Understanding the eBook Modeling And Control Of Logical Discrete Event Systems
 - The Rise of Digital Reading Modeling And Control Of Logical Discrete Event Systems
 - Advantages of eBooks Over Traditional Books
2. Identifying Modeling And Control Of Logical Discrete Event Systems
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Modeling And Control Of Logical Discrete Event Systems
 - User-Friendly Interface
4. Exploring eBook Recommendations from Modeling And Control Of Logical Discrete Event Systems
 - Personalized Recommendations
 - Modeling And Control Of Logical Discrete Event Systems User Reviews and Ratings
 - Modeling And Control Of Logical Discrete Event Systems and Bestseller Lists
5. Accessing Modeling And Control Of Logical Discrete Event Systems Free and Paid eBooks
 - Modeling And Control Of Logical Discrete Event Systems Public Domain eBooks
 - Modeling And Control Of Logical Discrete Event Systems eBook Subscription Services

- Modeling And Control Of Logical Discrete Event Systems Budget-Friendly Options
- 6. Navigating Modeling And Control Of Logical Discrete Event Systems eBook Formats
 - ePub, PDF, MOBI, and More
 - Modeling And Control Of Logical Discrete Event Systems Compatibility with Devices
 - Modeling And Control Of Logical Discrete Event Systems Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Modeling And Control Of Logical Discrete Event Systems
 - Highlighting and Note-Taking Modeling And Control Of Logical Discrete Event Systems
 - Interactive Elements Modeling And Control Of Logical Discrete Event Systems
- 8. Staying Engaged with Modeling And Control Of Logical Discrete Event Systems
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Modeling And Control Of Logical Discrete Event Systems
- 9. Balancing eBooks and Physical Books Modeling And Control Of Logical Discrete Event Systems
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Modeling And Control Of Logical Discrete Event Systems
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Modeling And Control Of Logical Discrete Event Systems
 - Setting Reading Goals Modeling And Control Of Logical Discrete Event Systems
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Modeling And Control Of Logical Discrete Event Systems
 - Fact-Checking eBook Content of Modeling And Control Of Logical Discrete Event Systems
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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