

MODELING AND CONTROL OF LOGICAL DISCRETE EVENT SYSTEMS

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Modeling And Control Of Logical Discrete Event Systems

Janan Zaytoon



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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 Stéphane 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

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

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

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 **Management and Control of Production and Logistics 2004 (MCPL 2004)** Gaston Lefranc,2006-01-30

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