

# Modeling and Control of Discrete-event Dynamic Systems

**B. Hruz and M.C. Zhou**

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# Modeling And Control Of Discrete Event Dynamic Systems With Petri Nets And Other Tools Advanced Textbooks In Control And Signal Processing

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## **Modeling And Control Of Discrete Event Dynamic Systems With Petri Nets And Other Tools Advanced Textbooks In Control And Signal Processing:**

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

**System Modeling and Control with Resource-Oriented Petri Nets** MengChu Zhou, Naiqi Wu, 2018-09-03 Petri nets are widely used in modeling analysis and control of discrete event systems arising from manufacturing transportation computer and communication networks and web service systems However Petri net models for practical systems can be very large making it difficult to apply such models to real life problems System Modeling and Control with Resource Oriented Petri Nets introduces a new resource oriented Petri net ROPN model that was developed by the authors Not only does it successfully reduce model size but it also offers improvements that facilitate effective modeling analysis and control of automated and reconfigurable manufacturing systems Presenting the latest research in this novel approach this cutting edge volume provides proven theories and methodologies for implementing cost and time saving improvements to contemporary manufacturing systems It provides effective tools for deadlock avoidance deadlock free routing and deadlock free scheduling The authors supply simple and complex industrial manufacturing system examples to illustrate time tested concepts theories and approaches for solving real life application problems Written in a clear and concise manner the text covers applications to automated and reconfigurable manufacturing systems automated guided vehicle AGV systems semiconductor manufacturing systems and flexible assembly systems Explaining complex concepts in a manner that is easy to understand the authors provide the understanding and tools needed for more effective modeling analysis performance evaluation control and scheduling of engineering processes that will lead to more flexible and efficient manufacturing systems

**Prototyping of Concurrent Control Systems Implemented in FPGA Devices** Remigiusz Wiśniewski, 2016-09-30 This book focuses on prototyping aspects of concurrent control systems and their further implementation and partial reconfiguration in programmable devices Further it lays out a full prototyping flow for concurrent control systems Based on a given primary specification a system is described with an interpreted Petri net which naturally reflects the concurrent and sequential relationships of the design The book shows that apart from the traditional option of static configuration of the entire system the latest programmable devices especially FPGAs offer far more sophistication Partial reconfiguration allows selected parts of the system to be replaced without having to reprogram the entire structure of the device Approaches to dynamic and static partial reconfiguration of concurrent control systems are presented and

described in detail p The theoretical work is illustrated by examples drawn from various applications with a milling machine and a traffic light controller highlighted as representative interpreted Petri nets Given the ubiquity of concurrent control systems in a huge variety of technological areas including transportation medicine artificial intelligence manufacturing security and safety and planetary exploration the innovative software and hardware design methods described here will be of considerable interest to control engineers and systems and circuits researchers in many areas of industry and academia

International Aerospace Abstracts ,1999      **Supervisory Control of Discrete Event Systems Using Petri Nets** John O. Moody,Panos J. Antsaklis,2012-12-06 Supervisory Control of Discrete Event Systems Using Petri Nets presents a novel approach to its subject The concepts of supervisory control and discrete event systems are explained and the background material on general Petri net theory necessary for using the book s control techniques is provided A large number of examples is used to illustrate the concepts and techniques presented in the text and there are plenty of references for those interested in additional study or more information on a particular topic Supervisory Control of Discrete Event Systems Using Petri Nets is intended for graduate students advanced undergraduates and practicing engineers who are interested in the control problems of manufacturing communication and computer networks chemical process plants and other high level control applications The text is written from an engineering perspective but it is also appropriate for students of computer science applied mathematics or economics The book contains enough background material to stand alone as an introduction to supervisory control with Petri nets but it may also be used as a supplemental text in a course on discrete event systems or intelligent autonomous control      **The Cumulative Book Index** ,1992 A world list of books in the English language

Scientific and Technical Aerospace Reports ,1994 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database      Introduction to Discrete Event Systems Christos G. Cassandras,Stéphane Lafortune,2009-12-14 Introduction to Discrete Event Systems is a comprehensive introduction to 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 queuing theory discrete event simulation and concurrent estimation techniques This edition includes recent research results pertaining to the diagnosis of discrete event systems decentralized supervisory control and interval based timed automata and hybrid automata models

Documentation Abstracts ,1991      Index to IEEE Publications Institute of Electrical and Electronics Engineers,1989 Issues for 1973 cover the entire IEEE technical literature      International Books in Print ,1986      *Supervision of Petri Nets* Geert Stremersch,2001-09-30 Supervision of Petri Nets presents supervisory control theory for Petri nets with a legal set as the control goal Petri nets model discrete event systems dynamic systems whose evolution is completely determined by the

occurrence of discrete events Control laws which guarantee that the system meets a set of specifications in the presence of uncontrollable and unobservable events are studied and constructed using application areas such as automated manufacturing and transportation systems Supervision of Petri Nets introduces a new and mathematically sound approach to the subject Existing results are unified by proposing a general mathematical language that makes extensive use of order theoretical ideas and numerous new results are described including ready to use algorithms that construct supervisory control laws for Petri nets Supervision of Petri Nets is an excellent reference for researchers and may also be used as a supplementary text for advanced courses on control theory Subject Guide to Books in Print ,1993 *The Journal of Nutrition* ,1967 Vols 7 42 include the Proceedings of the annual meeting of the American Institute of Nutrition 1st 9th 11th 14th 1934 1942 1947 1950 1st 8th 1934 1941 issued as supplements to the journal Petri Net Synthesis for Discrete Event Control of Manufacturing Systems MengChu Zhou,F. Dicesare,2012-12-06 Petri Net Synthesis for Discrete Event Control of Manufacturing Systems develops two essential resource sharing concepts parallel and sequential mutual exclusions and theoretical results in Petri synthesis A parallel mutual exclusion PME is defined to model a resource shared by independent distributed processes and a sequential mutual exclusion is a sequential composition of PMEs modeling a resource shared by sequentially related processes A hybrid synthesis methodology for Petri net models and controllers is proposed using top down modular and bottom up design ideas and the mutual exclusion theory An aggregate Petri net model is refined by replacing places and or transitions with basic design modules which are mathematically and graphically described Petri net design methods are presented for such buffers as automatic storage and retrieval systems Using the proposed method synthesizes both Petri net structure and feasible initial markings guaranteeing that resulting Petri nets have desirable system properties such as freedom from deadlock and cyclic behavior A Petri net controller is extended to error recovery for automated manufacturing systems The theory can guarantee that the desired system properties achieved by the original design will be preserved when the controller is augmented to deal with an error in the prescribed methods Control code has been directly generated from Petri net definitions The algorithm and implementation details are given for a flexible manufacturing system Using the approach presented in Petri Net Synthesis for Discrete Event Control of Manufacturing Systems engineers and research workers can develop their own discrete event control applications and experiments

**Fault Diagnosis of Hybrid Dynamic and Complex Systems** Moamar Sayed-Mouchaweh,2018-03-27 Online fault diagnosis is crucial to ensure safe operation of complex dynamic systems in spite of faults affecting the system behaviors Consequences of the occurrence of faults can be severe and result in human casualties environmentally harmful emissions high repair costs and economical losses caused by unexpected stops in production lines The majority of real systems are hybrid dynamic systems HDS In HDS the dynamical behaviors evolve continuously with time according to the discrete mode configuration in which the system is Consequently fault diagnosis approaches must take into account both discrete and

continuous dynamics as well as the interactions between them in order to perform correct fault diagnosis This book presents recent and advanced approaches and techniques that address the complex problem of fault diagnosis of hybrid dynamic and complex systems using different model based and data driven approaches in different application domains inductor motors chemical process formed by tanks reactors and valves ignition engine sewer networks mobile robots planetary rover prototype etc These approaches cover the different aspects of performing single multiple online offline parametric discrete abrupt tear and wear fault diagnosis in incremental non incremental manner using different modeling tools hybrid automata hybrid Petri nets hybrid bond graphs extended Kalman filter etc for different classes of hybrid dynamic and complex systems

*Discrete Event Systems: Modeling and Control* S. Balemi,P. Kozák,Rein Smedinga,1993-01-01 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 **Control of Discrete-Event Systems**

Carla Seatzu,Manuel Silva,Jan H. van Schuppen,2012-07-27 Control of Discrete event Systems provides a survey of the most important topics in the discrete event systems theory with particular focus on finite state automata Petri nets and max plus algebra Coverage ranges from introductory material on the basic notions and definitions of discrete event systems to more recent results Special attention is given to results on supervisory control state estimation and fault diagnosis of both centralized and distributed decentralized systems developed in the framework of the Distributed Supervisory Control of Large Plants DISC project Later parts of the text are devoted to the study of congested systems through fluidization an over approximation allowing a much more efficient study of observation and control problems of timed Petri nets Finally the max plus algebraic approach to the analysis and control of choice free systems is also considered Control of Discrete event Systems provides an introduction to discrete event systems for readers that are not familiar with this class of systems but also provides an introduction to research problems and open issues of current interest to readers already familiar with them

Most of the material in this book has been presented during a Ph D school held in Cagliari Italy in June 2011

**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

**Discrete Event Systems** R. Boel, Geert Stremersch, 2000-07-31 Discrete Event Systems Analysis and Control is the proceedings of WODES2000 the 5th Workshop on Discrete Event Systems held in Ghent Belgium on August 21 23 2000 This book provides a survey of the current state of the art in the field of modeling analysis and control synthesis of discrete event systems lecture notes for a mini course on sensitivity analysis for performance evaluation of timed discrete event systems and 48 carefully selected papers covering all areas of discrete event theory and the most important applications domains Topics include automata theory and supervisory control 12 Petri net based models for discrete event systems and their control synthesis 11 max and timed automata models 9 applications papers related to scheduling failure detection and implementation of supervisory controllers 7 formal description of PLCs 6 and finally stochastic models of discrete event systems 3

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