

# MODELING AND CONTROL OF LOGICAL DISCRETE EVENT SYSTEMS

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# Modeling And Control Of Logical Discrete Event Systems

**Pedro Filipe Cunha,Paul G. Maropoulos**

## **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 *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 *Modeling, Analysis and Control of Centralized and Decentralized Logical Discrete-event Systems* George Russell Barrett,1999 **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

### **Digital Enterprise Technology**

Pedro Filipe Cunha,Paul G. Maropoulos,2007-09-18 The first Digital Enterprise Technology DET International Conference was held in Durham UK in 2002 and the second DET Conference in Seattle USA in 2004 Sponsored by CIRP College International pour la Recherche en Productique the third DET Conference took place in Setúbal Portugal in 2006 Digital Enterprise Technology Perspectives and Future Challenges is an edited volume based on this conference Topics include distributed and collaborative design process modeling and process planning advanced factory equipment and layout design and modeling physical to digital environment integrators enterprise integration technologies and entrepreneurship in DET

### *Stability Analysis of Discrete Event Systems*

Kevin M. Passino,Kevin L. Burgess,1998-03-16 An authoritative presentation on an important emerging field Discrete event systems are ubiquitous in modern society and we rely heavily on their proper design correct operation and performance Written by leaders in the field who have helped establish the foundations of the theory and applied the methods to a wide variety of applications Stability Analysis of Discrete Event Systems is useful both as a textbook homework problems are included and for researchers in systems and control theory This book includes many examples and three detailed case studies computer network load balancing manufacturing system scheduling and intelligent control systems Important features of this book include A concise introduction to discrete event system modeling including Petri nets Comprehensive treatment of stability concepts and Lyapunov analysis methods Stability of Petri models Case studies in Computer network load balancing system behavior and analysis Manufacturing system scheduler design and analysis Intelligent control system modeling and analysis for expert control systems An outlook on the role of stability concepts and analysis in intelligent autonomous and hybrid systems

### **Distributed Intelligence Systems 1991**

International Federation of Automatic Control,1992-04-03 Containing 41 papers this volume focuses on recent advances in the field of intelligent 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

**Supervisory Control of Discrete-Event Systems** W. Murray Wonham, Kai Cai, 2018-08-17 This book shows how supervisory control theory SCT supports the formulation of various control problems of standard types like the synthesis of controlled dynamic invariants by state feedback and the resolution of such problems in terms of naturally definable control theoretic concepts and properties like reachability controllability and observability It exploits a simple abstract model of controlled discrete event systems DES that has proved to be tractable appealing to control specialists and expressive of a range of control theoretic ideas It allows readers to choose between automaton based and dually language based forms of SCT depending on whether their preference is for an internal structural or external behavioral description of the problem The monograph begins with two chapters on algebraic and linguistic preliminaries and the fundamental concepts and results of SCT are introduced To handle complexity caused by system scale architectural approaches the horizontal modularity of decentralized and distributed supervision and the vertical modularity of hierarchical supervision are introduced Supervisory control under partial observation and state based supervisory control are also addressed in the latter a vector DES model that exploits internal regularity of algebraic structure is proposed Finally SCT is generalized to deal with timed DES by incorporating temporal features in addition to logical ones Researchers and graduate students working with the control of discrete event systems or who are interested in the development of supervisory control methods will find this book an invaluable aid in their studies The text will also be of assistance to researchers in manufacturing logistics communications and transportation areas which provide plentiful examples of the class of systems being discussed

**Deadlock Resolution in Automated Manufacturing Systems** ZhiWu Li, MengChu Zhou, 2009-02-12 Deadlock problems in flexible manufacturing systems FMS have received more and more attention in the last two decades Petri nets are one of the more promising

mathematical tools for tackling deadlocks in various resource allocation systems In a system modeled with Petri nets siphons are tied to the occurrence of deadlock states as a structural object The book systematically introduces the novel theory of siphons traps and elementary siphons of Petri nets as well as the deadlock control strategies for FMS developed from it Deadlock prevention methods are examined comparatively The many FMS examples presented to demonstrate the concepts and results of this book range from the simple to the complex Importantly to inspire and motive the reader's interest in further research a number of interesting and open problems in this area are proposed at the end of each chapter

**On Monitoring and Diagnosing Classes of Discrete Event Systems** Olivier Contant,2005    **SIAM Journal on Control and Optimization** Society for Industrial and Applied Mathematics,1976    Proceedings ,2005    **Modular Discrete Event Systems** Yi-Liang Chen,1997    **Hybrid Systems** ,1996 Vols for 1996 consist of papers presented at the 4th International Conference on Hybrid Systems

**The Industrial Electronics Handbook** J. David Irwin,1997-05-09 From traditional topics that form the core of industrial electronics to new and emerging concepts and technologies The Industrial Electronics Handbook in a single volume has the field covered Nowhere else will you find so much information on so many major topics in the field For facts you need every day and for discussions on topics you have only dreamed of The Industrial Electronics Handbook is an ideal reference

**Integrated Systems Engineering** G. Johannsen,2014-05-23 A key solution for present and future technological problems is an integration systems approach The challenging cross discipline of integrated systems engineering is perhaps more easily accepted and implemented in the organizational structures of industries than in academia The opportunity for both sides leading researchers and industrial practitioners in this field to exchange ideas concepts and solutions has been provided at the IFAC symposia on integrated systems engineering This postprint volume contains all those papers which were presented at the symposia including the three plenary papers and the papers of the case study session as well as the summaries of the three discussion sessions

**CONCUR ... ,2000**  
Proceedings of the 2015 Chinese Intelligent Systems Conference Yingmin Jia,Junping Du,Hongbo Li,Weicun Zhang,2015-11-21 This book presents selected research papers from the 2015 Chinese Intelligent Systems Conference CISC 15 held in Yangzhou China The topics covered include multi agent systems evolutionary computation artificial intelligence complex systems computation intelligence and soft computing intelligent control advanced control technology robotics and applications intelligent information processing iterative learning control and machine learning Engineers and researchers from academia industry and the government can gain valuable insights into solutions combining ideas from multiple disciplines in the field of intelligent systems

**Computer Aided Systems Theory** ,2001

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