
DISCRETE EVENT SYSTEMS

Analysis and Control

edited by
R. Boel
G. Stremersch



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Discrete Event Systems Analysis And Control

Masao Ikeda, Yuzo Ohta



Discrete Event Systems Analysis And Control:

Discrete Event Systems R. Boel, Geert Stremersch, 2012-12-06 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

Introduction to Discrete Event Systems Christos G. Cassandras, Stéphane Lafortune, 2013-04-17 A substantial portion of this book is a revised version of Discrete Event Systems Modeling and Performance Analysis 1993 which was written by the first author and received the 1999 Harold Chestnut Prize awarded by the International Federation of Automatic Control IFAC for best control engineering textbook This new expanded book is a comprehensive introduction to the field of discrete event systems emphasizing breadth of coverage and accessibility of the material to readers with different backgrounds Its key feature is the emphasis placed on a unified modeling framework that transcends specific application areas and allows linking of the following topics in a coherent manner language and automata theory supervisory control Petri net theory max algebra Markov chains and queueing theory discrete event simulation perturbation analysis and concurrent estimation techniques Introduction to Discrete Event Systems will be of interest to advanced level students in a variety of disciplines where the study of discrete event systems is relevant control communications computer engineering computer science manufacturing engineering operations research and industrial engineering

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 Systems Christos G. Cassandras,1993 *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 *Process Management* Maria Pomffiova,2010-04-01 The content of the book has been structured into four technical research sections with total of 18 chapters written by well recognized researchers worldwide These sections are 1 process and performance management and their measurement methods 2 management of manufacturing processes with the aim to be quickly adaptable after real situation demands and their control 3 quality management information and communication systems their integration and risk management 4 management processes of healthcare and water construction and demolition waste problems and integration of environmental processes into management decisions Stochastic Discrete Event Systems Armin Zimmermann,2008-01-12 Stochastic discrete event systems SDES capture the randomness in choices due to activity delays and the probabilities of decisions This book delivers a comprehensive overview on modeling with a quantitative evaluation of SDES It presents an abstract model class for SDES as a pivotal unifying result and details important model classes The book also includes nontrivial examples to explain real world applications of SDES *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 Management and Control of Production and Logistics 2004 (MCPL 2004) Gaston Lefranc,2006-01-30 **Discrete-event System Simulation** Jerry Banks,John S. Carson,Barry L. Nelson,1996 Offers comprehensive coverage of discrete event simulation emphasizing and describing the procedures used in operations research methodology generation and testing of random numbers collection and analysis of input data verification of simulation models and analysis of output data **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

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

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 cover the fundamentals of this emerging filed 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

Logical analysis and control of real-time discrete event systems Archana S. Sathaye,1993

Analysis and Control for Resilience of Discrete Event Systems João Carlos Babilio,Christoforos N. Hadjicostis,Rong Su,2021-08-17 As modern systems become larger and the impact of a failure can be wide ranging in some cases causing havoc to everyday life system reliance the ability of a system to withstand major disruption and to recover within an acceptable time frame becomes increasingly important While systems failures can have many causes component faults and cyber intrusions are two common such causes which can occur separately or one type can cause another failure of the other type In this monograph the authors describe in detail the research on fault diagnosis opacity analysis and enhancement and cyber security analysis and enforcement within suitable discrete event system modelling frameworks In each case they describe basic problem statements and key concepts and then point out the key challenges in each research area Finally the authors present a thorough review of state of the art techniques and discuss their advantages and disadvantages This monograph is a thorough overview of the cutting edge of research on resilient systems It will be starting point for the readers own research into improving the reliability and fault tolerance of modern day engineering and computer systems

Control Theory and Advanced Technology ,1989

A Methodology for Analysis and Control of Discrete Event Dynamic Systems Daniel Azzopardi,1996

Systems Engineering and Analysis Benjamin S. Blanchard,Wolter J. Fabrycky,1990 This book is about systems It concentrates on the engineering of human made systems and on systems analysis In the first case emphasis is on the process of bringing systems into being beginning with the identification of a need and extending through requirements determination functional analysis and allocation design

synthesis and evaluation validation operation and support and disposal In the second case focus is on the improvement of systems already in being By employing the iterative process of analysis evaluation modification and feedback most systems now in existence can be improved in their effectiveness product quality affordability and stakeholder satisfaction BOOK

JACKET **Large Scale Systems 2004** Masao Ikeda,Yuzo Ohta,2005-12-28 Proceedings ,2004

The Top Books of the Year Discrete Event Systems Analysis And Control The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the engaging narratives that have captivated audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Discrete Event Systems Analysis And Control : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discrete Event Systems Analysis And Control : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and gripping novel that will keep you speculating until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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Table of Contents Discrete Event Systems Analysis And Control

1. Understanding the eBook Discrete Event Systems Analysis And Control
 - The Rise of Digital Reading Discrete Event Systems Analysis And Control
 - Advantages of eBooks Over Traditional Books
2. Identifying Discrete Event Systems Analysis And Control
 - 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 a Discrete Event Systems Analysis And Control
 - User-Friendly Interface
4. Exploring eBook Recommendations from Discrete Event Systems Analysis And Control
 - Personalized Recommendations
 - Discrete Event Systems Analysis And Control User Reviews and Ratings
 - Discrete Event Systems Analysis And Control and Bestseller Lists
5. Accessing Discrete Event Systems Analysis And Control Free and Paid eBooks
 - Discrete Event Systems Analysis And Control Public Domain eBooks
 - Discrete Event Systems Analysis And Control eBook Subscription Services
 - Discrete Event Systems Analysis And Control Budget-Friendly Options
6. Navigating Discrete Event Systems Analysis And Control eBook Formats
 - ePub, PDF, MOBI, and More
 - Discrete Event Systems Analysis And Control Compatibility with Devices
 - Discrete Event Systems Analysis And Control Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Discrete Event Systems Analysis And Control
 - Highlighting and Note-Taking Discrete Event Systems Analysis And Control
 - Interactive Elements Discrete Event Systems Analysis And Control
8. Staying Engaged with Discrete Event Systems Analysis And Control

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Discrete Event Systems Analysis And Control
- 9. Balancing eBooks and Physical Books Discrete Event Systems Analysis And Control
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Discrete Event Systems Analysis And Control
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Discrete Event Systems Analysis And Control
 - Setting Reading Goals Discrete Event Systems Analysis And Control
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Discrete Event Systems Analysis And Control
 - Fact-Checking eBook Content of Discrete Event Systems Analysis And Control
 - 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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