

Introduction to **Discrete Event Systems**

Second Edition



Christos G. Cassandras
Stéphane Lafortune

Introduction To Discrete Event Systems

**Christos G. Cassandras, Stéphane
Lafortune**



Introduction To Discrete Event Systems:

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

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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.

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 and 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 2004 (WODES'04) Janan Zaytoon, 2005-12-22. Approx. 484 pages.

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Introduction to Discrete Event Simulation and Agent-based Modeling Theodore T. Allen, 2011-01-12. Discrete event simulation and agent based modeling are increasingly recognized as critical for diagnosing and solving process issues in complex systems. Introduction to Discrete Event Simulation and Agent based Modeling covers the techniques needed for success in all phases of simulation projects. These include:

- Definition: The reader will learn how to plan a project and communicate using a charter.
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production Also over one hundred solved problems are provided and two full case studies including one on voting machines that received international attention Introduction to Discrete Event Simulation and Agent based Modeling demonstrates how simulation can facilitate improvements on the job and in local communities It allows readers to competently apply technology considered key in many industries and branches of government It is suitable for undergraduate and graduate students as well as researchers and other professionals

Modeling Discrete-Event Systems with GPenSIM Reggie

Davidrajuh,2018-02-28 Modeling Discrete Event Systems with GPenSIM describes the design and applications of General Purpose Petri Net Simulator GPenSIM which is a software tool for modeling simulation and performance analysis of discrete event systems The brief explains the principles of modelling discrete event systems as well as the design and applications of GPenSIM It is based on the author s lectures that were given on modeling simulation and performance analysis of discrete event systems The brief uses GPenSIM to enable the efficient modeling of complex and large scale discrete event systems GPenSIM which is based on MATLAB is designed to allow easy integration of Petri net models with a vast number of toolboxes that are available on the MATLAB The book offers an approach for developing models that can interact with the external environment this will help readers to solve problems in industrial diverse fields These problems include airport capacity evaluation for aviation authorities finding bottlenecks in supply chains scheduling drilling operations in the oil and gas industry and optimal scheduling of jobs in grid computing This brief is of interest to researchers working on the modeling simulation and performance evaluation of discrete event systems as it shows them the design and applications of an efficient modeling package Since the book also explains the basic principles of modeling discrete event systems in a step by step manner it is also of interest to final year undergraduate and postgraduate students

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

Discrete Event Systems Moamar

Sayed-Mouchaweh,2014-03-24 Discrete Event Systems Diagnosis and Diagnosability addresses the problem of fault diagnosis of Discrete Event Systems DESs This book provides the basic techniques and approaches necessary for the design of an efficient fault diagnosis system for a wide range of modern engineering applications This book classifies the different techniques and approaches according to several criteria such as modeling tools Automata Petri nets Templates that is used to

construct the model the information qualitative based on events occurrences and or states outputs quantitative based on signal processing data analysis that is needed to analyze and achieve the diagnosis the decision structure centralized decentralized that is required to achieve the diagnosis as well as the complexity polynomial exponential of the algorithm that is used to determine the set of faults that the proposed approach is able to diagnose as well as the delay time required for this diagnosis The goal of this classification is to select the efficient method to achieve the fault diagnosis according to the application constraints This book will include illustrated examples of the presented methods and techniques as well as a discussion on the application of these methods on several real world problems

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