



DISCRETE EVENT SYSTEMS 2004

*A Proceedings volume from the 7th IFAC Workshop,
Reims, France, 22-24 September 2004*

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Discrete Event Systems Proceedings

R. Boel, Geert Stremersch



Discrete Event Systems Proceedings:

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

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

Advances in Control Theory and Applications Claudio Bonivento, Alberto Isidori, Lorenzo Marconi, Carlo Rossi, 2007-06-04 This volume is the outcome of the first CASY workshop on Advances in Control Theory and Applications which was held at University of Bologna on May 22 26 2006 It consists of selected contributions by some of the invited speakers and contains recent results in control The volume is intended for engineers researchers and students in control engineering

Eighth International Workshop on Discrete Event Systems International Workshop on Discrete Event Systems, 2006

Discrete Event Systems, Manufacturing Systems, and Communication Networks P.R. Kumar, P.P. Varaiya, 2012-12-06 This IMA Volume in Mathematics and its Applications DISCRETE EVENT SYSTEMS MANUFACTURING SYSTEMS AND COMMUNICATION NETWORKS is based on the proceedings of a workshop that was an integral part of the 1992 93 IMA program on Control Theory The study of discrete event dynamical systems DEDS has become rapidly popular among researchers in systems and control in communication networks in manufacturing and in distributed computing This development has created problems for researchers and potential consumers of the research The first problem is the veritable Babel of languages formalisms and approaches which makes it very difficult to determine the commonalities and distinctions among the competing schools of approaches The second related problem arises from the different traditions paradigms values and experience that scholars bring to their study of DEDS depending on whether they come from control communication computer science or mathematical logic As a result intellectual exchange among scholars becomes compromised by unexplicated assumptions The purpose of the Workshop was to promote exchange among scholars representing some of the major schools of thought in DEDS with the hope that 1 greater clarity will be achieved thereby and 2 cross fertilization will lead to more fruitful questions We thank P R Kumar and P P Varaiya for organizing the workshop and editing the proceedings We also take this opportunity to thank the National Science Foundation and the Army Research Office whose financial support made the workshop possible

A vner Friedman Willard Miller Jr

Discrete Event Systems Christos G. Cassandras, 1993

Formal Approaches to Agent-Based Systems Michael G. Hinchey, James L. Rash, Walter F. Truszkowski, Christopher Rouff, Diana Gordon-Spears, 2003-07-29 The idea of a FAABS workshop was first conceived in 1998 at the NASA Goddard Space Flight Center while the Agent Technology Development Group in the Advanced Architectures and Automation Branch Code 588 was developing a prototype agent community to automate satellite ground operations While developing this system several race conditions arose within and between agents Due to the complexity of the agents and the communications between them it was decided that a formal approach was needed to specify the agents and the communications between them so that the system could be checked for additional errors A formal model of the inter agent communications was developed with the expectation that this would enable us to

find more errors Success in this convinced us of the importance of using formal methods to model agent based systems To share our own experiences and to learn how others were approaching these issues we decided to hold a workshop on formal methods and agent based systems The response was overwhelming The result was the first FAABS workshop which was held at the NASA Goddard Space Flight Center Posters paper presentations panels and an invited talk by J Moore stimulated much discussion and subsequent collaboration *Formal Methods for Components and Objects* Frank S. de Boer,Marcello M. Bonsangue,Susanne Graf,Willem-Paul de Roever,2006-09-30 This book presents 19 revised invited keynote lectures and revised tutorial lectures given at the 4th International Symposium on Formal Methods for Components and Objects FMCO 2005 Amsterdam November 2005 The book provides a unique combination of ideas on software engineering and formal methods that reflect the current interest in the application or development of formal methods for large scale software systems such as component based systems and object systems *Formal Methods for Components and Objects* ,2007

Models and Analysis for Distributed Systems Serge Haddad,Fabrice Kordon,Laurent Pautet,Laure Petrucci,2013-02-07 Nowadays distributed systems are increasingly present for public software applications as well as critical systems software applications as well as critical systems This title and Distributed Systems Design and Algorithms from the same editors introduce the underlying concepts the associated design techniques and the related security issues The objective of this book is to describe the state of the art of the formal methods for the analysis of distributed systems Numerous issues remain open and are the topics of major research projects One current research trend consists of profoundly mixing the design modeling verification and implementation stages This prototyping based approach is centered around the concept of model refinement This book is more specifically intended for readers that wish to gain an overview of the application of formal methods in the design of distributed systems Master s and PhD students as well as engineers in industry will find a global understanding of the techniques as well as references to the most up to date works in this area Discrete Event Systems Silvano Balemi,Petr Kozák,Rein Smedinga,1993 Reviews research in the control of discrete event systems and its application to such areas as flexible manufacturing communication database management traffic control and concurrent and real time software verification and design The 19 papers present models of real time system behavior methods for decreasing computation and model complexity unifying approaches to modeling performance analysis and other information No index Annotation c by Book News Inc Portland Or **Modeling, Analysis and Control of Centralized and Decentralized Logical**

Discrete-event Systems George Russell Barrett,1999 *Databases and Information Systems X* Olegas Vasilecas,Gintautas Dzemyda,2019-01-15 The importance of databases and information systems to the functioning of 21st century life is indisputable This book presents papers from the 13th International Baltic Conference on Databases and Information Systems held in Trakai Lithuania from 1 4 July 2018 Since the first of these events in 1994 the Baltic DB advanced database systems internet of things big data analysis cognitive computing and applications and case studies These results will contribute to the

further development of this fast growing field and will be of interest to all those working with advanced information systems databases and related areas

Discrete Event Systems Control, 2003 *Synthesis and Control of Discrete Event Systems* Benoît Caillaud, Philippe Darondeau, Luciano Lavagno, Xiaolan Xie, 2013-04-17 This book aims at providing a view of the current trends in the development of research on Synthesis and Control of Discrete Event Systems Papers collected in this volume are based on a selection of talks given in June and July 2001 at two independent meetings the Workshop on Synthesis of Concurrent Systems held in Newcastle upon Tyne as a satellite event of ICATPN ICACSD and organized by Ph Darondeau and L Lavagno and the Symposium on the Supervisory Control of Discrete Event Systems SCODES held in Paris as a satellite event of CAV and organized by B Caillaud and X Xie Synthesis is a generic term that covers all procedures aiming to construct from specifications given as input objects matching these specifications Theories and applications of synthesis have been studied and developed for long in connection with logics programming automata discrete event systems and hardware circuits Logics and programming are outside the scope of this book whose focus is on Discrete Event Systems and Supervisory Control The stress today in this field is on a better applicability of theories and algorithms to practical systems design Coping with decentralization or distribution and caring for an efficient realization of the synthesized systems or controllers are of the utmost importance in areas so diverse as the supervision of embedded or manufacturing systems or the implementation of protocols in software or in hardware

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

Special Issue on Dynamics of Discrete Event Systems Y.-C. Ho, 1989 **Proceedings of the 1997 American Control Conference** American Automatic Control Council, 1997 Proceedings, 1995

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