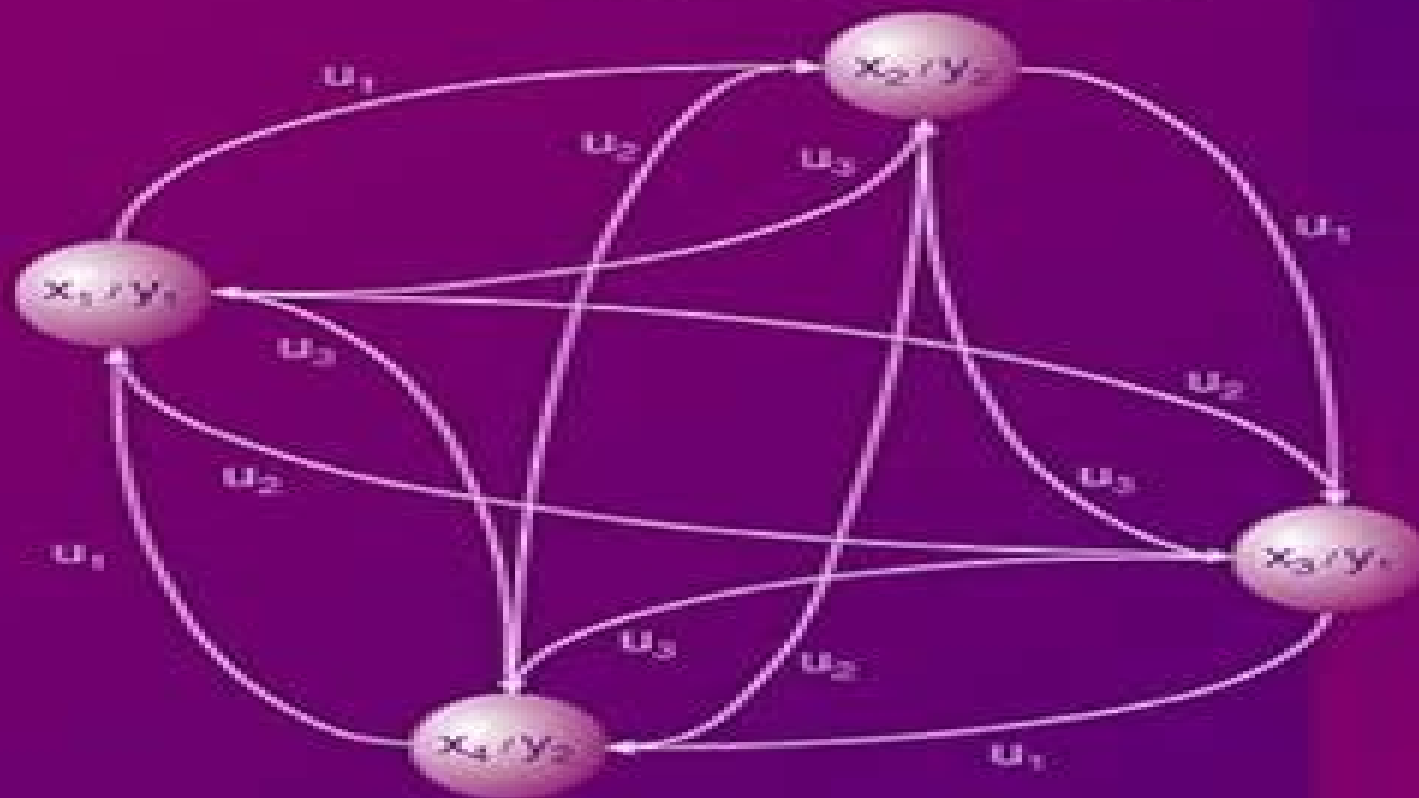


DISCRETE-EVENT SYSTEM THEORY

AN INTRODUCTION

Antonio Tornambè



World Scientific

Discrete Event System Theory An Introduction

Franz Pichler, Roberto Moreno-Diaz



Discrete Event System Theory An Introduction:

Discrete-event System Theory Antonio Tornambe,1995 Systems: Theory and Practice Rudolf Albrecht,2012-12-06

There is hardly a science that is without the notion of system We have systems in mathematics formal systems in logic systems in physics electrical and mechanical engineering architectural operating information programming systems in computer science management and production systems in industrial applications economical ecological biological systems and many more In many of these disciplines formal tools for system specification construction verification have been developed as well as mathematical concepts for system modeling and system simulation Thus it is quite natural to expect that systems theory as an interdisciplinary and well established science offering general concepts and methods for a wide variety of applications is a subject in its own right in academic education However as can be seen from the literature and from the curricula of university studies at least in Central Europe it is subordinated and either seen as part of mathematics with the risk that mathematicians who may not be familiar with applications define it in their own way or it is treated separately within each application field focusing on only those aspects which are thought to be needed in the particular application This often results in uneconomical re inventing and re naming of concepts and methods within one field while the same concepts and methods are already well introduced and practiced in other fields The fundamentals on general systems theory were developed several decades ago We note the pioneering work of M A Arbib R E Kalman G Eklir M D *Introduction to Discrete Event Systems* Christos G. Cassandras,Stéphane Lafortune,2007-11-27 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 new material pertaining to the diagnosis of discrete event systems decentralized supervisory control and interval based timed automata and hybrid automata models This textbook is valuable 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 operations research and industrial engineering Discrete-event System Theory Antonio Tornambe,1995 This book provides a clear understandable and motivated account on the subject that spans both conventional and modern materials about discrete event systems material that up to now has been presented in the literature in different fields such as the graph theory the probability theory the automata theory and the queueing theory The book gives a complete introduction to the discrete event system theory and simultaneously applies the theory to practical problems The book gives students of computer sciences system sciences and of electrical engineering a clear unambiguous and relevant account of discrete event systems Numerous illustrations are included for better understanding Problems as

well as their solutions are included in each chapter. It can be used as a basic introduction for undergraduates and graduate students. Although it is logically self-contained, it presupposes the mathematical maturity acquired by students with two years of calculus.

Realization and Modelling in System Theory A.C. Ran, J.H. van Schuppen, Marinus Kaashoek, 2013-03-07. This volume is the first of the three-volume publication containing the proceedings of the 1989 International Symposium on the Mathematical Theory of Networks and Systems (MTNS 89) which was held in Amsterdam, The Netherlands, June 19-23, 1989. The International Symposia MTNS focus attention on problems from system and control theory, circuit theory, and signal processing which in general require application of sophisticated mathematical tools such as from function and operator theory, linear algebra, and matrix theory, differential and algebraic geometry. The interaction between advanced mathematical methods and practical engineering problems of circuits, systems, and control, which is typical for MTNS, turns out to be most effective and is, as these proceedings show, a continuing source of exciting advances. The first volume contains invited papers and a large selection of other symposium presentations on the general theory of deterministic and stochastic systems, with an emphasis on realization and modelling. A wide variety of recent results on approximate realization and system identification, stochastic dynamical systems, discrete event systems, singular systems, and nonstandard models is presented. Preface vi. Also a few papers on applications in hydrology and hydraulics are included. The titles of the two other volumes are **Robust Control of Linear Systems and Nonlinear Control** (volume 2) and **Signal Processing, Scattering, and Operator Theory and Numerical Methods** (volume 3). The Editors are most grateful to the about 300 reviewers for their help in the refereeing process. The Editors thank Ms G. Bijleveld and Ms

Theory of Modeling and Simulation Bernard P. Zeigler, Herbert Praehofer, Tag Gon Kim, 2000-01-10. The increased computational power and software tools available to engineers have increased the use and dependence on modeling and computer simulation throughout the design process. These tools have given engineers the capability of designing highly complex systems and computer architectures that were previously unthinkable. Every complex design project, from integrated circuits to aerospace vehicles to industrial manufacturing processes, requires these new methods. This book fulfills the essential need of system and control engineers at all levels in understanding modeling and simulation. This book, written as a true text/reference, has become a standard senior/graduate level course in all EE departments worldwide, and all professionals in this area are required to update their skills. The book provides a rigorous mathematical foundation for modeling and computer simulation. It provides a comprehensive framework for modeling and simulation, integrating the various simulation approaches. It covers model formulation, simulation model execution, and the model building process with its key activities: model abstraction and model simplification, as well as the organization of model libraries. Emphasis of the book is in particular in integrating discrete event and continuous modeling approaches, as well as a new approach for discrete event simulation of continuous processes. The book also discusses simulation execution on parallel and distributed machines and concepts for simulation model realization based on the High

Level Architecture HLA standard of the Department of Defense Presents a working foundation necessary for compliance with High Level Architecture HLA standards Provides a comprehensive framework for continuous and discrete event modeling and simulation Explores the mathematical foundation of simulation modeling Discusses system morphisms for model abstraction and simplification Presents a new approach to discrete event simulation of continuous processes Includes parallel and distributed simulation of discrete event models Presents a concept to achieve simulator interoperability in the form of the DEVS Bus

Computer Aided Systems Theory - EUROCAST '95 Franz Pichler, Roberto Moreno-Diaz, Rudolf F. Albrecht, 1996-01-24 This book presents a collection of revised refereed papers selected from the contributions to the Fifth International Workshop on Computer Aided Systems Theory EUROCAST 95 held in Innsbruck Austria in May 1995 The 42 full papers contained have been contributed by CAST theoreticians tool makers designers and appliers and reflect the full spectrum of activities in the area The papers are organized in sections on systems theory design environments complex systems design and specific applications

Computer Aided Systems Theory - EUROCAST '97 Franz Pichler, Roberto Moreno-Diaz, 1997-11-05 This book constitutes a refereed post workshop selection of papers presented at the 6th International Workshop on Computer Aided Systems Theory EUROCAST 97 held in Las Palmas de Gran Canaria Spain in February 1997 The 50 revised full papers presented were carefully selected for inclusion in the volume The book is divided into sections on design environments and tools theory and methods engineering systems intelligent systems signal processing and specific methods and applications

Theory of Hybrid Systems and Discrete Event Systems Anuj Puri, 1995

Discrete Event Systems Christos G. Cassandras, 1993

Proceedings of the International Symposium on Manufacturing Science and Technology for the 21st Century Zhou Zhaoying, 1994

Three Decades of Mathematical System Theory Hendrik Nijmeijer, 1989-09 The field of modern mathematical system theory has its origins in the work of R E Kalman in the late fifties It came to a rapid development in the early sixties and has seen a continuing and still growing stream of contributions in the years that followed Today it stands as a well established discipline The volume Three Decades of Mathematical System Theory surveys the developments in this field by presenting 21 articles covering the broad area of system and control theory All articles have been written by well known authors who were invited to give their personal expert view on a particular direction of research Together the contributions in this volume review the wide range of mathematical methods that are being applied in modern system and control theory The mathematical fields that are involved included differential and algebraic geometry linear and commutative algebra and functional and stochastic analysis

Computer Aided Systems Theory - EUROCAST '89 Franz Pichler, Roberto Moreno-Diaz, 1990-02-07 Nonlinear Evolution Equations and Dynamical Systems NEEDS provides a presentation of the state of the art Except for a few review papers the 40 contributions are intentionally brief to give only the gist of the methods proofs etc including references to the relevant literature This gives a handy overview of current research activities Hence the book should be equally useful to the

senior researcher as well as the colleague just entering the field

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Computational and Combinatorial Methods in Systems Theory Christopher I. Byrnes, Anders Lindquist, 1986

Monitoring and Control of Centralized and Decentralized Partially-observed Discrete-event Systems Tae-Sic Yoo, 2002 *Formal Verification of Discrete Event and Hybrid Systems* Sonia Regina Sachs, 1995 *Computer Aided Systems Theory*, 2001 Computations on Distributed Discrete-event Systems Kurt Ryan Rohloff, 2004

Failure Diagnosis of Decentralized Discrete Event Systems Rami Ismail Debouk, 2000 SIAM Journal on Control and Optimization Society for Industrial and Applied Mathematics, 1999

Contains research articles on the mathematics and applications of control theory and on those parts of optimization theory concerned with the dynamics of deterministic or stochastic systems in continuous or discrete time or otherwise dealing with differential equations dynamics infinite dimensional spaces or fundamental issues in variational analysis and geometry

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