
Perturbation Analysis of Discrete Event Dynamic Systems

**Yu-Chi Ho
Xi-Ren Cao**



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Weibo Gong



Perturbation Analysis Of Discrete Event Dynamic Systems:

Perturbation Analysis of Discrete Event Dynamic Systems Yu-Chi (Larry) Ho, Xi-Ren Cao, 2012-12-06 Dynamic Systems DEDS are almost endless military C3I logistic systems the emergency ward of a metropolitan hospital back offices of large insurance and brokerage firms service and spare part operations of multinational firms the point is the pervasive nature of such systems in the daily life of human beings Yet DEDS is a relatively new phenomenon in dynamic systems studies From the days of Galileo to Newton to quantum mechanics and cosmology of the present dynamic systems in nature are primarily differential equations based and time driven A large literature and endless success stories have been built up on such Continuous Variable Dynamic Systems CVDS It is however equally clear that DEDS are fundamentally different from CVDS They are event driven asynchronous mostly man made and only became significant during the past generation Increasingly however it can be argued that in the modern world our lives are being impacted by and dependent upon the efficient operations of such DEDS Yet compared to the successful paradigm of differential equations for CVDS the mathematical modelling of DEDS is in its infancy Nor are there as many successful and established techniques for their analysis and synthesis The purpose of this series is to promote the study and understanding of the modelling analysis control and management of DEDS The idea of the series came from editing a special issue of the Proceedings of IEEE on DEOS during 1988 ~ **A Formal Description of Discrete Event Dynamic Systems Including Perturbation Analysis** Bert Bettonvil, 1987 Three Topics on Perturbation Analysis of Discrete-event Dynamic Systems Pirooz Vakili, 1988

Optimization and Perturbation Analysis of Discrete Event Dynamic Systems Xi-Ren Cao, 1984 **Structural Infinitesimal Perturbation Analysis of Discrete Event Dynamic Systems** Liyi Dai, 1993 Analytic Perturbation Analysis of Discrete Event Dynamic Systems, 1994 This paper considers a new Analytic Perturbation Analysis APA approach for Discrete Event Dynamic Systems DEDS with discontinuous sample path functions with respect to control parameters The performance functions for DEDS usually are formulated as mathematical expectations which can be calculated only numerically APA is based on new analytic formulas for the gradients of expectations of indicator functions therefore it is called an analytic perturbation analysis The gradient of performance function may not coincide with the expectation of a gradient of sample path function i.e. the interchange formula for the gradient and expectation sign may not be valid Estimates of gradients can be obtained with one simulation run of the models A Formal Description of Discrete Event Dynamic Systems Bert Bettonvil, 1987 **Sensitivity Analysis of Discrete Event Dynamic Systems by a Petri Net-based Perturbation Analysis Method** Chengche Feng, 1993 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 St. Phane Lafortune is Professor of Electrical Engineering and Computer Science at the University of Michigan Ann Arbor

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

Extended Perturbation Analysis of Discrete Event Dynamical Systems Shu Li, 1988 **Smoothed Perturbation Analysis of Discrete Event Dynamical Systems** Weibo Gong, 1987 *Efficient simulation algorithms for optimization of discrete event systems based on measure-valued differentiation* Taoying Farenhorst-Yuan, 2010 **Supervisory Control of Discrete Event Systems Using Petri Nets** John O. Moody, Panos J. Antsaklis, 2012-12-06 Supervisory Control of Discrete Event Systems Using Petri Nets presents a novel approach to its subject The concepts of supervisory control and discrete

event systems are explained and the background material on general Petri net theory necessary for using the book's control techniques is provided. A large number of examples is used to illustrate the concepts and techniques presented in the text and there are plenty of references for those interested in additional study or more information on a particular topic.

Supervisory Control of Discrete Event Systems Using Petri Nets is intended for graduate students, advanced undergraduates, and practicing engineers who are interested in the control problems of manufacturing, communication, and computer networks, chemical process plants, and other high-level control applications. The text is written from an engineering perspective but it is also appropriate for students of computer science, applied mathematics, or economics. The book contains enough background material to stand alone as an introduction to supervisory control with Petri nets but it may also be used as a supplemental text in a course on discrete event systems or intelligent autonomous control.

Handbook of Industrial Engineering Gavriel Salvendy, 2001-05-25. Unrivaled coverage of a broad spectrum of industrial engineering concepts and applications. The *Handbook of Industrial Engineering* Third Edition contains a vast array of timely and useful methodologies for achieving increased productivity, quality, and competitiveness and improving the quality of working life in manufacturing and service industries. This astoundingly comprehensive resource also provides a cohesive structure to the discipline of industrial engineering with four major classifications: technology, performance, improvement, management, management planning, and design, control, and decision-making methods. Completely updated and expanded to reflect nearly a decade of important developments in the field, this Third Edition features a wealth of new information on project management, supply chain management, and logistics and systems related to service industries. Other important features of this essential reference include: More than 1,000 helpful tables, graphs, figures, and formulas; Step-by-step descriptions of hundreds of problem-solving methodologies; Hundreds of clear, easy-to-follow application examples; Contributions from 176 accomplished international professionals with diverse training and affiliations; More than 4,000 citations for further reading. The *Handbook of Industrial Engineering* Third Edition is an immensely useful one-stop resource for industrial engineers and technical support personnel in corporations of any size, continuous process and discrete part manufacturing industries, and all types of service industries from healthcare to hospitality, from retailing to finance. Of related interest: **HANDBOOK OF HUMAN FACTORS AND ERGONOMICS** Second Edition Edited by Gavriel Salvendy 0-471-11690-4 2165 pages 60 chapters. A comprehensive guide that contains practical knowledge and technical background on virtually all aspects of physical, cognitive, and social ergonomics. As such, it can be a valuable source of information for any individual or organization committed to providing competitive, high-quality products and safe, productive work environments. John F. Smith Jr., Chairman of the Board, Chief Executive Officer, and President, General Motors Corporation. From the Foreword.

Computer Aided Design in Control and Engineering Systems P. Martin Larsen, N. E. Hansen, 2014-05-17. *Computer Aided Design in Control and Engineering Systems* contains the proceedings of the 3rd International Federation of Automatic Control (International Federation for

Information Processing Symposium held in Lyngby Denmark from July 31 to August 2 1985 The papers review the state of the art and the trends in development of computer aided design CAD of control and engineering systems techniques procedures and concepts This book is comprised of 74 chapters divided into 17 sections and begins with a description of a prototype computer environment that combines expert control system analysis and design tools The discussion then turns to decision support systems which could be used to address problems of management and control of large scale multiproduct multilane batch manufacturing outside the mechanical engineering industries The following chapters focus on the use of CAD in control education industrial applications of CAD and hardware software systems Some examples of universal and specialized CAD packages are presented and applications of CAD in electric power plants process control systems and transportation systems are highlighted The remaining chapters look at CAD computer aided engineering computer aided manufacturing systems as well as the use of mathematical methods in CAD This monograph will be of interest to practitioners in computer science computer engineering and industrial engineering

Importance Measures in Reliability, Risk, and Optimization Way Kuo,Xiaoyan Zhu,2012-05-10 This unique treatment systematically interprets a spectrum of importance measures to provide a comprehensive overview of their applications in the areas of reliability network risk mathematical programming and optimization Investigating the precise relationships among various importance measures it describes how they are modelled and combined with other design tools to allow users to solve readily many real world large scale decision making problems Presenting the state of the art in network analysis multistate systems and application in modern systems this book offers a clear and complete introduction to the topic Through describing the reliability importance and the fundamentals it covers advanced topics such as signature of coherent systems multi linear functions and new interpretation of the mathematical programming problems Key highlights Generalizes the concepts behind importance measures such as sensitivity and perturbation analysis uncertainty analysis mathematical programming network designs enabling readers to address large scale problems within various fields effectively Covers a large range of importance measures including those in binary coherent systems binary monotone systems multistate systems continuum systems repairable systems as well as importance measures of pairs and groups of components Demonstrates numerical and practical applications of importance measures and the related methodologies including risk analysis in nuclear power plants cloud computing software reliability and more Provides thorough comparisons examples and case studies on relations of different importance measures with conclusive results based on the authors own research Describes reliability design such as redundancy allocation system upgrading and component assignment This book will benefit researchers and practitioners interested in systems design reliability risk and optimization statistics maintenance prognostics and operations Readers can develop feasible approaches to solving various open ended problems in their research and practical work Software developers IT analysts and reliability and safety engineers in nuclear telecommunications offshore and civil industries will

also find the book useful Intelligent Production Machines and Systems - 2nd I*PROMS Virtual International Conference 3-14 July 2006 Duc T. Pham, Eldaw E. Eldukhri, Anthony J. Soroka, 2011-07-28 I PROMS 2005 is an online web based conference It provides a platform for presenting discussing and disseminating research results contributed by scientists and industrial practitioners active in the area of intelligent systems and soft computing techniques such as fuzzy logic neural networks evolutionary algorithms and knowledge based systems and their application in different areas of manufacturing Comprised of 100 peer reviewed articles this important resource provides tools to help enterprises achieve goals critical to the future of manufacturing I PROMS is an European Union funded network that involves 30 partner organizations and more than 130 researchers from universities research organizations and corporations State of the art research results Leading European researchers and industrial practitioners Comprehensive collection of indexed and peer reviewed articles in book format supported by a user friendly full text CD ROM with search functionality *Stochastic Learning and Optimization* Xi-Ren Cao, 2007-10-23 Performance optimization is vital in the design and operation of modern engineering systems including communications manufacturing robotics and logistics Most engineering systems are too complicated to model or the system parameters cannot be easily identified so learning techniques have to be applied This is a multi disciplinary area which has been attracting wide attention across many disciplines Areas such as perturbation analysis PA in discrete event dynamic systems DEDSs Markov decision processes MDPs in operations research reinforcement learning RL or neuro dynamic programming NDP in computer science identification and adaptive control I AC in control systems share the common goal to make the best decision to optimize system performance This book provides a unified framework based on a sensitivity point of view It also introduces new approaches and proposes new research topics within this sensitivity based framework **Automatic Control 1990** Ü Jaaksoo, 2014-05-23 This volume provides a general overview on the state of the art and future developments in automation and control The application of systems and control in all areas is covered from the social and cultural effects of control to control in mineral and metal processing This volume will be an invaluable source of information to all those interested in the areas of automation and control

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