Monotone Delay

Laung-Terng Wang, Yao-Wen Chang, Kwang-Ting (Tim) Cheng

Shape, Smoothness, and Invariant Stratification of an Attracting Set for Delayed Monotone Positive Feedback Tibor Krisztin, Hans-Otto Walther, Jianhong Wu, This book contains recent results about the global dynamics defined by a class of delay differential equations which model basic feedback mechanisms and arise in a variety of applications such as neural networks. The authors describe in detail the geometric structure of a fundamental invariant set, which in special cases is the global attractor, and the asymptotic behavior of solution curves on it. The approach makes use of advanced tools which in recent years have been developed for the investigation of infinite-dimensional dynamical systems: local invariant manifolds and inclination lemmas for noninvertible maps, Floquet theory for delay differential equations, a priori estimates controlling the growth and decay of solutions with prescribed oscillation frequency, a discrete Lyapunov functional counting zeros, methods to represent invariant sets as graphs, and Poincaré-Bendixson techniques for classes of delay differential systems. Several appendices provide the general results needed in the case study, so the presentation is self-contained. Some of the general results are not available elsewhere, specifically on smooth infinite-dimensional centre-stable manifolds for maps. Results in the appendices will be useful for future studies of more complicated attractors of delay and partial differential equations.

Monotone Dynamical Systems: An Introduction to the Theory of Competitive and Cooperative Systems Hal L. Smith, 1995 This book presents comprehensive treatment of a rapidly developing area with many potential applications: the theory of monotone dynamical systems and the theory of competitive and cooperative differential equations. The primary aim is to provide potential users of the theory with techniques, results, and ideas useful in applications, while at the same time providing rigorous proofs. Among the topics discussed in the book are continuous-time monotone dynamical systems, and quasimonotone and nonquasimonotone delay differential equations. The book closes with a discussion of applications to quasimonotone systems of reaction-diffusion type. Throughout the book, applications of the theory to many mathematical models arising in biology are discussed. Requiring a background in dynamical systems at the level of a first graduate course, this book is useful to graduate students and researchers working in the theory of dynamical systems and its applications.

Electronic Design Automation Laung-Terng Wang, Yao-Wen Chang, Kwang-Ting (Tim) Cheng, 2009-03-11 This book provides broad and comprehensive coverage of the entire EDA flow. EDA/VLSI practitioners and researchers in need of fluency in an adjacent field will find this an invaluable reference to the basic EDA concepts, principles, data structures, algorithms, and architectures for the design, verification, and test of VLSI circuits. Anyone who needs to learn the concepts, principles, data structures, algorithms, and architectures of the EDA flow will benefit from this book. Covers complete spectrum of the EDA flow, from ESL design modeling to logic/test synthesis, verification, physical design, and test - helps EDA newcomers to get up-and-running quickly Includes comprehensive coverage of EDA concepts, principles, data structures, algorithms, and architectures - helps all readers improve their VLSI design competence Contains latest advancements not yet available in other books, including Test compression, ESL design modeling, large-scale floorplanning, placement, routing, synthesis of clock and power/ground networks - helps readers to design/develop testable chips or products Includes industry best-practices wherever appropriate in most chapters - helps readers avoid costly mistakes

Internet and Network Economics Ning Chen, Edith Elkind, Elias Koutsoupias, 2012-02-02 This book constitutes the refereed proceedings of the 7th

International Workshop on Internet and Network Economics, WINE 2011, held in Singapore, in December 2011. The 31 revised full papers and 5 revised short papers presented together with the abstracts of 3 papers about work in progress were carefully reviewed and selected from 100 submissions. The papers are organized in topical sections on algorithmic game theory, algorithmic mechanism design, computational advertising, computational social choice, convergence and learning in games, economics aspects of security and privacy, information and attention economics, network games and social networks.

Differential Equations and Population Dynamics I Arnaud Ducrot, Quentin Griette, Zhihua Liu, Pierre Magal, 2022-07-21 This book provides an introduction to the theory of ordinary differential equations and its applications to population dynamics. Part I focuses on linear systems. Beginning with some modeling background, it considers existence, uniqueness, stability of solution, positivity, and the Perron-Frobenius theorem and its consequences. Part II is devoted to nonlinear systems, with material on the semiflow property, positivity, the existence of invariant sub-regions, the Linearized Stability Principle, the Hartman-Grobman Theorem, and monotone semiflow. Part III opens up new perspectives for the understanding of infectious diseases by applying the theoretical results to COVID-19, combining data and epidemic models. Throughout the book the material is illustrated by numerical examples and their MATLAB codes are provided. Bridging an interdisciplinary gap, the book will be valuable to graduate and advanced undergraduate students studying mathematics and population dynamics.

Majorization and Matrix-monotone Functions in Wireless Communications Eduard Jorswieck, Holger Boche, 2007 Majorization Theory and Matrix-Monotone Functions, describing their concepts clearly with many illustrative examples. In addition to this tutorial, new results are presented with respect to Schur-convex functions and regarding the properties of matrix-monotone functions. The approach taken by the authors provides a valuable overview of the basic techniques for readers who are new to the subject. They then proceed to show in separate chapters the cutting edge applications of the two basic theories in wireless communications. Majorization Theory and Matrix-Monotone Functions in Wireless Communications is an invaluable resource for students, researchers and practitioners involved in the state-of-the-art design of wireless communication systems.

On Optimal Interconnections for VLSI Andrew B. Kahng, Gabriel Robins, 2013-04-17 On Optimal Interconnections for VLSI describes, from a geometric perspective, algorithms for high-performance, high-density interconnections during the global and detailed routing phases of circuit layout. First, the book addresses area minimization, with a focus on near-optimal approximation algorithms for minimum-cost Steiner routing. In addition to practical implementations of recent methods, the implications of recent results on spanning tree degree bounds and the method of Zelikovsky are discussed. Second, the book addresses delay minimization, starting with a discussion of accurate, yet algorithmically tractable, delay models. Recent minimum-delay constructions are highlighted, including provably good cost-radius tradeoffs, critical-sink routing algorithms, Elmore delay-optimal routing, graph Steiner arborescences, non-tree routing, and wiresizing. Third, the book addresses skew minimization for clock routing and prescribed-delay routing formulations. The discussion starts with early matching-based constructions and goes on to treat zero-skew routing with provably minimum wirelength, as well as planar clock routing. Finally, the book concludes with a discussion of multiple (competing) objectives, i.e., how to optimize area, delay, skew, and other objectives simultaneously. These techniques are useful when the routing instance has heterogeneous resources or is highly congested, as in FPGA routing, multi-chip packaging, and very dense layouts.

Throughout the book, the emphasis is on practical algorithms and a complete self-contained development. On Optimal Interconnections for VLSI will be of use to both circuit designers (CAD tool users) as well as researchers and developers in the area of performance-driven physical design.

An Introduction to Fuzzy Control Dimiter Driankov, Hans Hellendoorn, Michael Reinfrank, 2013-03-09 Fuzzy controllers are a class of knowledge based controllers using artificial intelligence techniques with origins in fuzzy logic to compute an appropriate control action. These fuzzy knowledge based controllers can be found either as stand-alone control elements or as integral parts of distributed control systems including conventional controllers in a wide range of industrial process control systems and consumer products. Applications of fuzzy controllers have become a well established practice for Japanese manufacturers of control equipment and systems, and are becoming more and more common for their European and American counterparts. The main aim of this book is to show that fuzzy control is not totally ad hoc, that there exist formal techniques for the analysis of a fuzzy controller, and that fuzzy control can be implemented even when no expert knowledge is available. Thus the book is mainly oriented toward control engineers and theorists rather than fuzzy and non-fuzzy AI people. However, parts can be read without any knowledge of control theory and may be of interest to AI people. The book has six chapters. Chapter 1 introduces two major classes of knowledge based systems for closedloop control. Chapter 2 introduces relevant parts of fuzzy set theory and fuzzy logic. Chapter 3 introduces the principal design parameters of a fuzzy knowledge based controller (FKBC) and discusses their relevance with respect to its performance. Chapter 4 considers an FKBC as a particular type of nonlinear controller. Chapter 5 considers tuning and adaptation of FKBCs, which are nonlinear and so can be designed to cope with a certain amount of nonlinearity. Chapter 6 considers several approaches for stability analysis of FKBCs in the context of classical nonlinear dynamic systems theory.

Computational Science - ICCS 2003. Part 4. Peter Sloot,2003-05-22 The four-volume set LNCS 2657, LNCS 2658, LNCS 2659, and LNCS 2660 constitutes the refereed proceedings of the Third International Conference on Computational Science, ICCS 2003, held concurrently in Melbourne, Australia and in St. Petersburg, Russia in June 2003. The four volumes present more than 460 reviewed contributed and invited papers and span the whole range of computational science, from foundational issues in computer science and algorithmic mathematics to advanced applications in virtually all application fields making use of computational techniques. These proceedings give a unique account of recent results in the field.

Compiler Construction Tibor Gyimothy, 1996-04-03 This book presents the refereed proceedings of the Sixth International Conference on Compiler Construction, CC '96, held in Linköping, Sweden in April 1996. The 23 revised full papers included were selected from a total of 57 submissions; also included is an invited paper by William Waite entitled Compiler Construction: Craftsmanship or Engineering?. The book reports the state of the art in the area of theoretical foundations and design of compilers; among the topics addressed are program transformation, software pipelining, compiler optimization, program analysis, program inference, partial evaluation, implementational aspects, and object-oriented compilers.

Contracting Return Maps for Scalar Growth Systems Governed by Delayed Monotone Negative Feedback Marcus R. W. Martin, 2005

New developments in Functional and Fractional Differential Equations and in Lie Symmetry Ioannis P. Stavroulakis, Hossein Jafari, 2021-09-03 Delay, difference, functional, fractional, and partial differential equations have many applications in science and engineering. In this Special Issue, 29 experts coauthored 10 papers dealing with these subjects. A summary of the main points of these papers follows: Several oscillation conditions for a first-order linear

differential equation with non-monotone delay are established in Oscillation Criteria for First Order Differential Equations with Non-Monotone Delays, whereas a sharp oscillation criterion using the notion of slowly varying functions is established in A Sharp Oscillation Criterion for a Linear Differential Equation with Variable Delay. The approximation of a linear autonomous differential equation with a small delay is considered in Approximation of a Linear Autonomous Differential Equation with Small Delay; the model of infection diseases by Marchuk is studied in Around the Model of Infection Disease: The Cauchy Matrix and Its Properties. Exact solutions to fractional-order Fokker-Planck equations are presented in New Exact Solutions and Conservation Laws to the Fractional-Order Fokker-Planck Equations, and a spectral collocation approach to solving a class of time-fractional stochastic heat equations driven by Brownian motion is constructed in A Collocation Approach for Solving Time-Fractional Stochastic Heat Equation Driven by an Additive Noise. A finite difference approximation method for a space fractional convection-diffusion model with variable coefficients is proposed in Finite Difference Approximation Method for a Space Fractional Convection-Diffusion Equation with Variable Coefficients; existence results for a nonlinear fractional difference equation with delay and impulses are established in On Nonlinear Fractional Difference Equation with Delay and Impulses. A complete Noether symmetry analysis of a generalized coupled Lane-Emden-Klein-Gordon-Fock system with central symmetry is provided in Oscillation Criteria for First Order Differential Equations with Non-Monotone Delays, and new soliton solutions of a fractional Jaulent soliton Miodek system via symmetry analysis are presented in New Soliton Solutions of Fractional Jaulent-Miodek System with Symmetry Analysis.

Intelligent Control: Principles, Techniques And Applications Zixing Cai,1997-12-18 This book introduces the development process, structural theories and research areas of intelligent control; explains the knowledge representations, searching and reasoning mechanisms as the fundamental techniques of intelligent control; studies the theoretical principles and architectures of various intelligent control systems; analyzes the paradigms of representative applications of intelligent control; and discusses the research and development trends of the intelligent control. From the general point of view, this book possesses the following features: updated research results both in theory and application that reflect the latest advances in intelligent control; closed connection between theory and practice that enables readers to use the principles to their case studies and practical projects; and comprehensive materials that helps readers in understanding and learning.

Advances in Epidemiological Modeling and Control of Viruses Hemen Dutta, Khalid Hattaf, 2023-01-06 Advances in Epidemiological Modeling and Control of Viruses covers recent and advanced research works in the field of epidemiological modeling, with special emphasis on new strategies to control the occurrence and reoccurrence of viruses. The models included in this book can be used to study the dynamics of different viruses, searching for control measures, and epidemic models under various effects and environments. This book covers different models and methods of modeling, including data-driven approaches. The authors and editors are experienced researchers, and each chapter has been designed to provide readers with leading-edge information on topics discussed. Includes models to describe global and local dynamics of various viruses Provides readers with control strategies for occurrence and reoccurrence of viruses Includes epidemic models under various effects and environments Provides readers with a robust set of mathematical tools and techniques for epidemiological modeling

Topics in Functional Differential and Difference Equations Teresa Faria, Pedro Freitas, This volume contains papers written by participants at the

Conference on Functional Differential and Difference Equations held at the Instituto Superior Técnico in Lisbon, Portugal. The conference brought together mathematicians working in a wide range of topics, including qualitative properties of solutions, bifurcation and stability theory, oscillatory behavior, control theory and feedback systems, biological models, state-dependent delay equations, Lyapunov methods, etc. Articles are written by leading experts in the field. A comprehensive overview is given of these active areas of current research. The book will be of interest to both theoretical and applied mathematical scientists.

An Introduction to Delay Differential Equations with Applications to the Life Sciences hal smith,2010-09-29 This book is intended to be an introduction to Delay Differential Equations for upper level undergraduates or beginning graduate mathematics students who have a reasonable background in ordinary differential equations and who would like to get to the applications quickly. The author has used preliminary notes in teaching such a course at Arizona State University over the past two years. This book focuses on the key tools necessary to understand the applications literature involving delay equations and to construct and analyze mathematical models involving delay differential equations. The book begins with a survey of mathematical models involving delay equations.

Rational Herds Christophe Chamley, 2004 Publisher Description

Introduction to Neural Dynamics and Signal Transmission Delay Jianhong Wu,2011-07-20 In the design of a neural network, either for biological modeling, cognitive simulation, numerical computation or engineering applications, it is important to investigate the network's computational performance which is usually described by the long-term behaviors, called dynamics, of the model equations. The purpose of this book is to give an introduction to the mathematical modeling and analysis of networks of neurons from the viewpoint of dynamical systems.

A Unified Approach for Timing Verification and Delay Fault Testing Mukund Sivaraman, Andrzej J. Strojwas, 2012-09-17 Large system complexities and operation under tight timing constraints in rapidly shrinking technologies have made it extremely important to ensure correct temporal behavior of modernday digital circuits, both before and after fabrication. Research in (pre-fabrication) timing verification and (post-fabrication) delay fault testing has evolved along largely disjoint lines in spite of the fact that they share many basic concepts. A Unified Approach for Timing Verification and Delay Fault Testing applies concepts developed in the context of delay fault testing to path sensitization, which allows an accurate timing analysis mechanism to be developed. This path sensitization strategy is further applied for efficient delay fault diagnosis and delay fault coverage estimation. A new path sensitization strategy called Signal Stabilization Time Analysis (SSTA) has been developed based on the fact that primitive PDFs determine the stabilization time of the circuit outputs. This analysis has been used to develop a feasible method of identifying the primitive PDFs in a general multi-level logic circuit. An approach to determine the maximum circuit delay using this primitive PDF identification mechanism is also presented. The Primitive PDF Identification-based Timing Analysis (PITA) approach is proved to determine the maximum floating mode circuit delay exactly under any component delay model, and provides several advantages over previously floating mode timing analyzers. A framework for the diagnosis of circuit failures caused by distributed path delay faults is also presented. A metric to quantify the diagnosability of a path delay fault for a test is also proposed. Finally, the book presents a very realistic metric for delay fault coverage which accounts for delay fault size distributions and is applicable to any delay fault model. A Unified Approach for Timing Verification and Delay Fault Testing will be o

verification engineers dealing with timing issues in ULSI circuits. The book should also be of interest to digital designers and others interested in knowing the state of the art in timing verification and delay fault testing.

Foundations of Software Science and Computation Structures Javier Esparza, Andrzej S. Murawski, 2017-03-15 This book constitutes the proceedings of the 20th International Conference on Foundations of Software Science and Computation Structures, FOSSACS 2017, which took place in Uppsala, Sweden in April 2017, held as Part of the European Joint Conferences on Theory and Practice of Software, ETAPS 2017. The 32 papers presented in this volume were carefully reviewed and selected from 101 submissions. They were organized in topical sections named: coherence spaces and higher-order computation; algebra and coalgebra; games and automata; automata, logic and formal languages; proof theory; probability; concurrency; lambda calculus and constructive proof; and semantics and category theory.

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