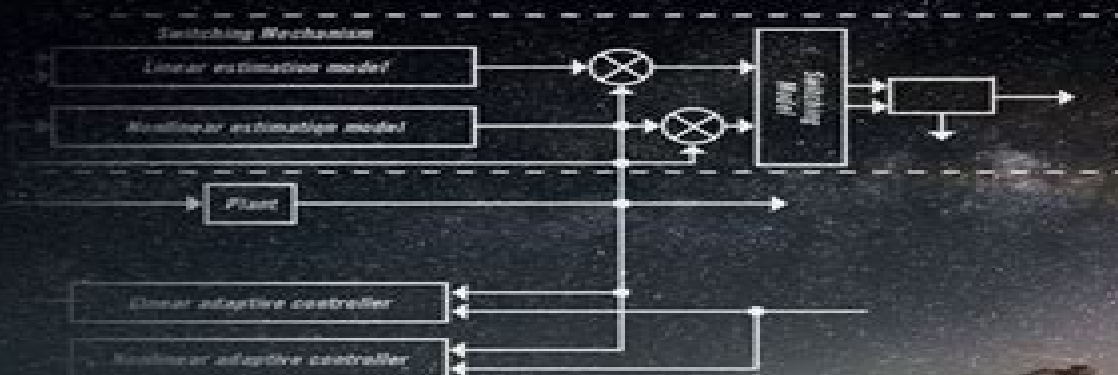


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Padhraic Smyth



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Continuum Deformation of Multi-Agent Systems Hossein Rastgoftar, 2016-12-14 This monograph presents new algorithms for formation control of multi agent systems MAS based on principles of continuum mechanics Beginning with an overview of traditional methods the author then introduces an innovative new approach whereby agents of an MAS are considered as particles in a continuum evolving in R^n whose desired configuration is required to satisfy an admissible deformation function The necessary theory and its validation on a mobile agent based swarm test bed are considered for two primary tasks homogeneous transformation of the MAS and deployment of a random distribution of agents on a desired configuration The framework for this model is based on homogeneous transformations for the evolution of an MAS under no inter agent communication local inter agent communication and intelligent perception by agents Different communication protocols for MAS evolution the robustness of tracking of a desired motion by an MAS evolving in R^n and the effect of communication delays in an MAS evolving under consensus algorithms or homogeneous maps are also explored Featuring appendices which introduce the requisite concepts from continuum kinematics and graph theory this monograph will provide advanced graduate students and researchers with the necessary background to understand and apply the methods presented

Issues in Systems Engineering: 2012 Edition, 2013-01-10 *Issues in Systems Engineering 2012 Edition* is a ScholarlyEditions eBook that delivers timely authoritative and comprehensive information about Control and Systems Engineering The editors have built *Issues in Systems Engineering 2012 Edition* on the vast information databases of ScholarlyNews You can expect the information about Control and Systems Engineering in this eBook to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of *Issues in Systems Engineering 2012 Edition* has been produced by the world s leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at <http://www.ScholarlyEditions.com>

Fuzzy Modeling and Control: Theory and Applications Fernando Matía, G. Nicolás Marichal, Emilio Jiménez, 2014-08-14 Much work on fuzzy control covering research development and applications has been developed in Europe since the 90 s Nevertheless the existing books in the field are compilations of articles without interconnection or logical structure or they express the personal point of view of the author This book compiles the developments of researchers with demonstrated experience in the field of fuzzy control following a logic structure and a unified the style The first chapters of the book are dedicated to the introduction of the main fuzzy logic techniques where the following chapters focus on concrete applications This book is supported by the EUSFLAT and CEA IFAC societies which include a large number of researchers in the field of fuzzy logic and control The central topic of the book Fuzzy Control is one of the main research and development lines covered by these associations

Multisensor Fusion Estimation Theory and Application Liping Yan, Lu Jiang, Yuanqing Xia, 2020-11-11 This book focuses on the basic theory and methods of multisensor data fusion state estimation and its application It consists of four parts with 12 chapters In Part I the basic framework and methods of multisensor optimal estimation and the basic concepts of Kalman filtering are briefly and systematically introduced In Part II the data fusion state estimation algorithms under networked environment are introduced Part III consists of three chapters in which the fusion estimation algorithms under event triggered mechanisms are introduced Part IV consists of two chapters in which fusion estimation for systems with non Gaussian but heavy tailed noises are introduced The book is primarily intended for researchers and engineers in the field of data fusion and state estimation It also benefits for both graduate and undergraduate students who are interested in target tracking navigation networked control etc

Fault Tolerant Control for Switched Linear Systems Dongsheng Du, Bin Jiang, Peng Shi, 2015-01-29 This book presents up to date research and novel methodologies on fault diagnosis and fault tolerant control for switched linear systems It provides a unified yet neat framework of filtering fault detection fault diagnosis and fault tolerant control of switched systems It can therefore serve as a useful textbook for senior and or graduate students who are interested in knowing the state of the art of filtering fault detection fault diagnosis and fault tolerant control areas as well as recent advances in switched linear systems

Frontiers Of Intelligent Control And Information Processing Derong Liu, Cesare Alippi, Dongbin Zhao, Huaguang Zhang, 2014-08-13 The current research and development in intelligent control and information processing have been driven increasingly by advancements made from fields outside the traditional control areas into new frontiers of intelligent control and information processing so as to deal with ever more complex systems with ever growing size of data and complexity As researches in intelligent control and information processing are taking on ever more complex problems the control system as a nuclear to coordinate the activity within a system increasingly need to be equipped with the capability to analyze and reason so as to make decision This requires the support of cognitive components and communication protocol to synchronize events within the system to operate in unison In this review volume we invited several well known experts and active researchers from

adaptive approximate dynamic programming reinforcement learning machine learning neural optimal control networked systems and cyber physical systems online concept drift detection pattern recognition to contribute their most recent achievements into the development of intelligent control systems to share with the readers how these inclusions helps to enhance the cognitive capability of future control systems in handling complex problems This review volume encapsulates the state of art pioneering works in the development of intelligent control systems Proposition and evocations of each solution is backed up with evidences from applications could be used as references for the consideration of decision support and communication components required for today intelligent control systems

Handbook of Whale Optimization Algorithm Seyedali Mirjalili, 2023-11-24 Handbook of Whale Optimization Algorithm Variants Hybrids Improvements and Applications provides the most in depth look at an emerging meta heuristic that has been widely used in both science and industry Whale Optimization Algorithm has been cited more than 5000 times in Google Scholar thus solving optimization problems using this algorithm requires addressing a number of challenges including multiple objectives constraints binary decision variables large scale search space dynamic objective function and noisy parameters to name a few This handbook provides readers with in depth analysis of this algorithm and existing methods in the literature to cope with such challenges The authors and editors also propose several improvements variants and hybrids of this algorithm Several applications are also covered to demonstrate the applicability of methods in this book Provides in depth analysis of equations mathematical models and mechanisms of the Whale Optimization Algorithm Proposes different variants of the Whale Optimization Algorithm to solve binary multiobjective noisy dynamic and combinatorial optimization problems Demonstrates how to design develop and test different hybrids of Whale Optimization Algorithm Introduces several application areas of the Whale Optimization Algorithm focusing on sustainability Includes source code from applications and algorithms that is available online

Feedback Control in Systems Biology Carlo Cosentino, Declan Bates, 2011-10-17 Like engineering systems biological systems must also operate effectively in the presence of internal and external uncertainty such as genetic mutations or temperature changes for example It is not surprising then that evolution has resulted in the widespread use of feedback and research in systems biology over the past decade has shown that feedback control systems are widely found in biology As an increasing number of researchers in the life sciences become interested in control theoretic ideas such as feedback stability noise and disturbance attenuation and robustness there is a need for a text that explains feedback control as it applies to biological systems Written by established researchers in both control engineering and systems biology Feedback Control in Systems Biology explains how feedback control concepts can be applied to systems biology Filling the need for a text on control theory for systems biologists it provides an overview of relevant ideas and methods from control engineering and illustrates their application to the analysis of biological systems with case studies in cellular and molecular biology Control Theory for Systems Biologists The book focuses on the fundamental concepts used to analyze the effects of

feedback in biological control systems rather than the control system design methods that form the core of most control textbooks. In addition, the authors do not assume that readers are familiar with control theory. They focus on control applications such as metabolic and gene regulatory networks rather than aircraft robots or engines and on mathematical models derived from classical reaction kinetics rather than classical mechanics. Another significant feature of the book is that it discusses nonlinear systems, an understanding of which is crucial for systems biologists because of the highly nonlinear nature of biological systems. The authors cover tools and techniques for the analysis of linear and nonlinear systems, negative and positive feedback, robustness analysis, methods, techniques for the reverse engineering of biological interaction networks, and the analysis of stochastic biological control systems. They also identify new research directions for control theory inspired by the dynamic characteristics of biological systems. A valuable reference for researchers, this text offers a sound starting point for scientists entering this fascinating and rapidly developing field.

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Linear Parameter-Varying Control, Olivier Sename, 2025-04-11. An authoritative new exploration of the latest theoretical and applied advances in Linear Parameter Varying systems. In Linear Parameter Varying Control Theory and Application to Automotive Systems, distinguished researcher Dr. Olivier Sename delivers a comprehensive and up-to-date discussion of the theoretical aspects and real applications of Linear Parameter Varying (LPV) control, with a strong focus on systems theory and in real automotive systems. The author covers the primary methods used to model, control, and analyze LPV systems and illustrates how to model those systems using examples. This book covers developing adaptive LPV control using the provided recipes as guides and contextual aids, as well as discovering effective methods to design LPV controllers that have already been validated through real applications. Readers will also find a thorough introduction to vehicle dynamics control in automated vehicles, as well as suspension control. Comprehensive explorations of LPV systems modelling, including dynamical systems. Practical discussions of the properties of LPV systems, including controllability, observability, and stability. Complete treatments of LPV systems control, including state feedback control and dynamic output feedback LPV control. Perfect for researchers and students with an interest in vehicle dynamics. Linear Parameter Varying Control will also benefit

postgraduate and PhD students control engineers and academics teaching control theory and applications courses

Dynamic Modeling and Neural Network-Based Intelligent Control of Flexible Systems Hejia Gao, Wei He, Changyin Sun, 2025-01-09 Comprehensive treatment of several representative flexible systems ranging from dynamic modeling and intelligent control design through to stability analysis Fully illustrated throughout Dynamic Modeling and Neural Network Based Intelligent Control of Flexible Systems proposes high efficiency modeling methods and novel intelligent control strategies for several representative flexible systems developed by means of neural networks It discusses tracking control of multi link flexible manipulators vibration control of flexible buildings under natural disasters and fault tolerant control of bionic flexible flapping wing aircraft and addresses common challenges like external disturbances dynamic uncertainties output constraints and actuator faults Expanding on its theoretical deliberations the book includes many case studies demonstrating how the proposed approaches work in practice Experimental investigations are carried out on Quanser Rotary Flexible Link Quanser 2 DOF Serial Flexible Link Quanser Active Mass Damper and Quanser Smart Structure platforms The book starts by providing an overview of dynamic modeling and intelligent control of flexible systems introducing several important issues along with modeling and control methods of three typical flexible systems Other topics include Foundational mathematical preliminaries including the Hamilton principle model discretization methods Lagrange's equation method and Lyapunov's stability theorem Dynamic modeling of a single link flexible robotic manipulator and vibration control design for a string with the boundary time varying output constraint Unknown time varying disturbances such as earthquakes and strong winds and how to suppress them and use MATLAB and Quanser to verify effectiveness of a proposed control Adaptive vibration control methods for a single floor building like structure equipped with an active mass damper AMD Dynamic Modeling and Neural Network Based Intelligent Control of Flexible Systems is an invaluable resource for researchers and engineers seeking high efficiency modeling methods and neural network based control solutions for flexible systems along with industry engineers and researchers who are interested in control theory and applications and students in related programs of study

Sliding Mode Control of Uncertain Parameter-Switching Hybrid Systems Ligang Wu, Peng Shi, Xiaojie Su, 2014-05-27 In control theory sliding mode control SMC is a nonlinear control method that alters the dynamics of a nonlinear system by application of a discontinuous control signal that forces the system to slide along a cross section of the system's normal behaviour In recent years SMC has been successfully applied to a wide variety of practical engineering systems including robot manipulators aircraft underwater vehicles spacecraft flexible space structures electrical motors power systems and automotive engines Sliding Mode Control of Uncertain Parameter Switching Hybrid Systems addresses the increasing demand for developing SMC technologies and comprehensively presents the new state of the art sliding mode control methodologies for uncertain parameter switching hybrid systems It establishes a unified framework for SMC of Markovian jump singular systems and proposes new SMC methodologies based on the analysis results A series of problems

are solved with new approaches for analysis and synthesis of switched hybrid systems including stability analysis and stabilization dynamic output feedback control and SMC A set of newly developed techniques e g average dwell time piecewise Lyapunov function parameter dependent Lyapunov function cone complementary linearization are exploited to handle the emerging mathematical computational challenges Key features Covers new concepts new models and new methodologies with theoretical significance in system analysis and control synthesis Includes recent advances in Markovian jump systems switched hybrid systems singular systems stochastic systems and time delay systems Includes solved problems Introduces advanced techniques Sliding Mode Control of Uncertain Parameter Switching Hybrid Systems is a comprehensive reference for researchers and practitioners working in control engineering system sciences and applied mathematics and is also a useful source of information for senior undergraduate and graduates studying in these areas

Analysis and Synthesis of Polynomial Discrete-Time Systems Mohd Shakir Md Saat, Sing Kiong Nguang, Alireza Nasiri, 2017-07-10 Analysis and Synthesis of Polynomial Discrete time Systems An SOS Approach addresses the analysis and design of polynomial discrete time control systems The book deals with the application of Sum of Squares techniques in solving specific control and filtering problems that can be useful to solve advanced control problems both on the theoretical side and on the practical side Two types of controllers state feedback controller and output feedback controller along with topics surrounding the nonlinear filter and the H infinity performance criteria are explored The book also proposes a solution to global stabilization of discrete time systems Presents recent developments of the Sum of Squares approach in control of Polynomial Discrete time Systems Includes numerical and practical examples to illustrate how design methodologies can be applied Provides a methodology for robust output controller design with an H infinity performance index for polynomial discrete time systems Offers tools for the analysis and design of control processes where the process can be represented in polynomial form Uses the Sum of Squares method for solving controller and filter design problems Provides MATLAB code and simulation files of all illustrated example

Non-monotonic Approach to Robust H₂ Control of Multi-model Systems Jiwei Wen, Alireza Nasiri, Sing Kiong Nguang, Dhafer J. Almkhles, 2019-06-07 Non monotonic Approach to Robust H₂ Control of Multi model Systems focuses on robust analysis and synthesis problems for multi model systems based on the non monotonic Lyapunov Functionals LFs approach that enlarges the stability region and improves control performance By fully considering the diversity of switching laws the multi step time difference the multi step prediction and the expansion of system dimension the non monotonic LF can be properly constructed The focus of this book is placed on the H₂ state feedback control H₂ filtering and H₂ output feedback control for multi model systems via a non monotonic LF approach The book s authors provide illustrative examples to show the feasibility and efficiency of the proposed methods along with practical examples that demonstrate the effectiveness and potential of theoretical results

Iterative Learning Control for Nonlinear Time-Delay System Jianming Wei, Hong Wang, Fang Liu, 2023-01-01 This book focuses on adaptive iterative learning control

problem for nonlinear time delay systems A universal adaptive learning control scheme is provided for a wide classes of nonlinear systems with time varying delay and input nonlinearity Proceeding from easy to difficult this book deals with the adaptive iterative learning control problems for parameterized nonlinear time delay systems non parameterized nonlinear time delay systems nonlinear time delay systems with unknown control direction and nonlinear time delay systems with unmeasurable states The proposed control schemes can be extended to the adaptive learning control problem for wider classes of nonlinear systems relevant to abovementioned nonlinear systems The topics presented in this book are research hot spots of iterative learning control This book will be a valuable reference for researchers and students working or studying in this area

Cooperative Control of Complex Network Systems with Dynamic Topologies Guanghui Wen, Wenwu Yu, Yuezu Lv, Peijun Wang, 2021-07-01 Far from being separate entities many social and engineering systems can be considered as complex network systems CNSs associated with closely linked interactions with neighbouring entities such as the Internet and power grids Roughly speaking a CNS refers to a networking system consisting of lots of interactional individuals exhibiting fascinating collective behaviour that cannot always be anticipated from the inherent properties of the individuals themselves As one of the most fundamental examples of cooperative behaviour consensus within CNSs or the synchronization of complex networks has gained considerable attention from various fields of research including systems science control theory and electrical engineering This book mainly studies consensus of CNSs with dynamics topologies unlike most existing books that have focused on consensus control and analysis for CNSs under a fixed topology As most practical networks have limited communication ability switching graphs can be used to characterize real world communication topologies leading to a wider range of practical applications This book provides some novel multiple Lyapunov functions MLFs good candidates for analysing the consensus of CNSs with directed switching topologies while each chapter provides detailed theoretical analyses according to the stability theory of switched systems Moreover numerical simulations are provided to validate the theoretical results Both professional researchers and laypeople will benefit from this book

Feedforward Control José Luis Guzmán, Tore Hägglund, 2024-07-01 While there are thousands of books written about feedback control it is surprising that this is the very first book about feedforward control Feedforward control is a very powerful technique to compensate for measurable load disturbances in regulation control problems and the use of feedforward control to assist the traditional feedback controllers is rapidly increasing in industry The main goal of this book is to describe the power of feedforward control and to present different tuning rules for these controllers To achieve this goal theoretical and practical contributions are presented throughout the book to make the technique understandable and easy to implement The book contains many practical aspects both in terms of tuning and implementation of the feedforward controller Many simulation examples are also provided as well as a presentation of industrial experiences obtained from feedforward control applied to temperature control in greenhouses For these reasons we believe that the book will be useful not only at various levels in the teaching

systems but also for engineers working in industry

Sequential Intelligent Dynamic System Modeling and Control

Hai-Jun Rong,Zhao-Xu Yang,2024-07-05 The book offers novel research results of sequential intelligent dynamic system modeling and control in a unified framework from theory proposals to real applications It covers an in depth study of various learning algorithms for the permanent adaptation of intelligent model parameters as well as of structural parts of the model The comprehensive researches on sequential fuzzy and neural controller design schemes for some complex real applications are included This is particularly suited for readers who are interested to learn practical solutions for controlling nonlinear systems that are uncertain and varied at any time In addition the organization of the book from addressing fundamental concepts and presenting novel intelligent models to solving real applications is one of the major features of the book which makes it a valuable resource for both beginners and researchers wanting to further their understanding and study about realtime online intelligent modeling and control of nonlinear dynamic systems The book can benefit researchers engineers and graduate students in the fields of control engineering artificial intelligence computational intelligence intelligent control nonlinear system modeling and control etc

Robust Formation Control for Multiple Unmanned Aerial Vehicles

Hao Liu,Deyuan Liu,Yan Wan,Kimon Valavanis, Frank Lewis,2022-12-01 This book is based on the authors recent research results on formation control problems including time varying formation communication delays fault tolerant formation for multiple UAV systems with highly nonlinear and coupled parameter uncertainties and external disturbances Differentiating from existing works this book presents a robust optimal formation approach to designing distributed cooperative control laws for a group of UAVs based on the linear quadratic regulator control method and the robust compensation theory The proposed control method is composed of two parts the nominal part to achieve desired tracking performance and the robust compensation part to restrain the influence of highly nonlinear and strongly coupled parameter uncertainties and external disturbances on the global closed loop control system Furthermore this book gives proof of their robust properties The influence of communication delays and actuator fault tolerance can be restrained by the proposed robust formation control protocol and the formation tracking errors can converge into a neighborhood of the origin bounded by a given constant in a finite time Moreover the book provides details about the practical application of the proposed method to design formation control systems for multiple quadrotors and tail sitters Additional features include a robust control method that is proposed to address the formation control problem for UAVs and theoretical and experimental research for the cooperative flight of the quadrotor UAV group and the tail sitter UAV group Robust Formation Control for Multiple Unmanned Aerial Vehicles is suitable for graduate students researchers and engineers in the system and control community especially those engaged in the areas of robust control UAV swarming and multi agent systems

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