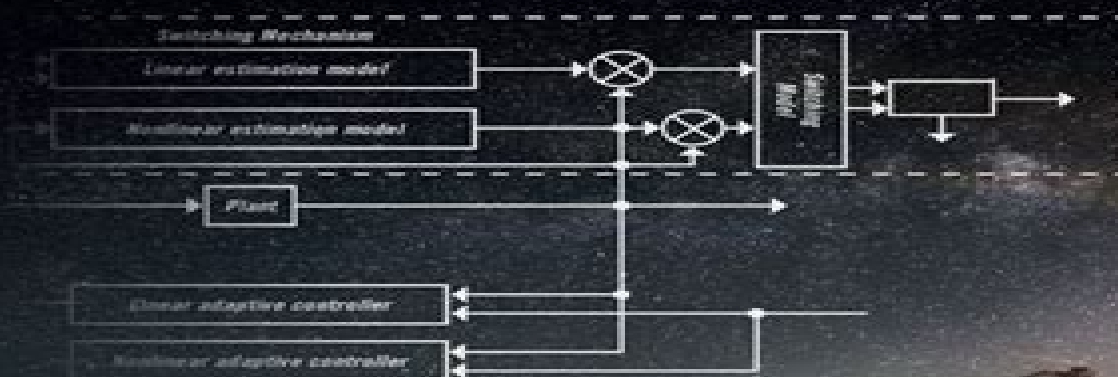


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Seyedali Mirjalili



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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

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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

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

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