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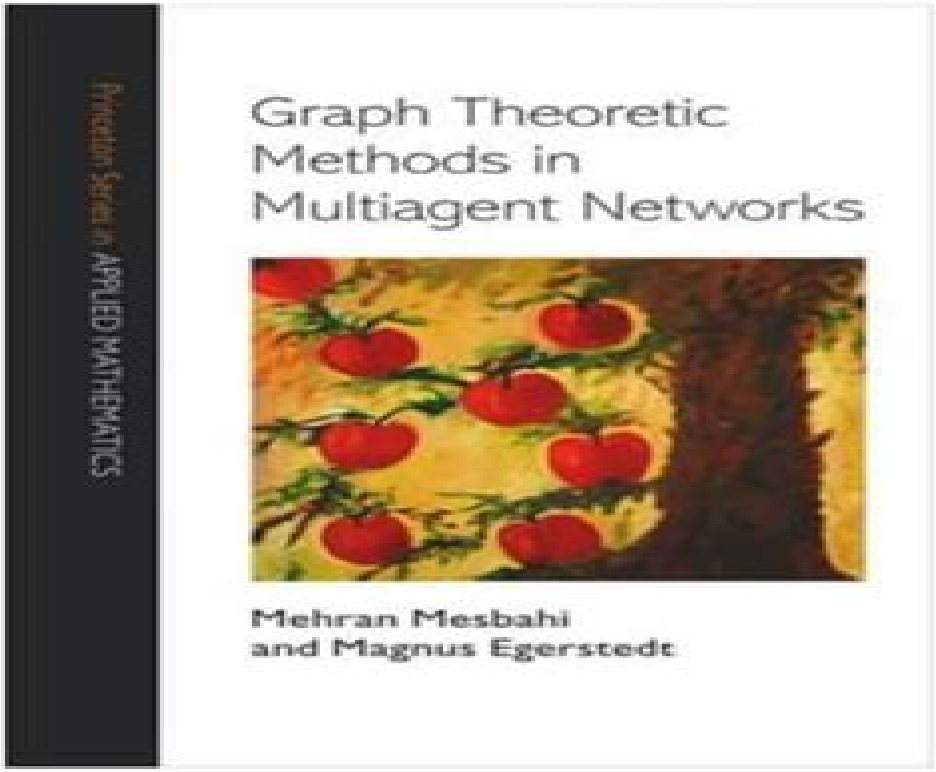

Graph Theoretic Methods In Multiagent Networks Graph Theoretic Methods In Multiagent Networks

Axaykumar Mehta,Bijnan Bandyopadhyay

Graph Theoretic Methods In Multiagent Networks Graph Theoretic Methods In Multiagent Networks:

Graph Theoretic Methods in Multiagent Networks Mehran Mesbahi,Magnus Egerstedt,2010-07-01 This accessible book provides an introduction to the analysis and design of dynamic multiagent networks Such networks are of great interest in a wide range of areas in science and engineering including mobile sensor networks distributed robotics such as formation flying and swarming quantum networks networked economics biological synchronization and social networks Focusing on graph theoretic methods for the analysis and synthesis of dynamic multiagent networks the book presents a powerful new formalism and set of tools for networked systems The book s three sections look at foundations multiagent networks and networks as systems The authors give an overview of important ideas from graph theory followed by a detailed account of the agreement protocol and its various extensions including the behavior of the protocol over undirected directed switching and random networks They cover topics such as formation control coverage distributed estimation social networks and games over networks And they explore intriguing aspects of viewing networks as systems by making these networks amenable to control theoretic analysis and automatic synthesis by monitoring their dynamic evolution and by examining higher order interaction models in terms of simplicial complexes and their applications The book will interest graduate students working in systems and control as well as in computer science and robotics It will be a standard reference for researchers seeking a self contained account of system theoretic aspects of multiagent networks and their wide ranging applications This book has been adopted as a textbook at the following universities University of Stuttgart Germany Royal Institute of Technology Sweden Johannes Kepler University Austria Georgia Tech USA University of Washington USA Ohio University USA

Flocking and Rendezvous in Distributed Robotics Bruce A. Francis,Manfredi Maggiore,2015-10-24 This brief describes the coordinated control of groups of robots using only sensory input and no direct external commands Furthermore each robot employs the same local strategy i e there are no leaders and the text also deals with decentralized control allowing for cases in which no single robot can sense all the others One can get intuition for the problem from the natural world for example flocking birds How do they achieve and maintain their flying formation Recognizing their importance as the most basic coordination tasks for mobile robot networks the brief details flocking and rendezvous They are shown to be physical illustrations of emergent behaviors with global consensus arising from local interactions The authors extend the consideration of these fundamental ideas to describe their operation in flying robots and prompt readers to pursue further research in the field Flocking and Rendezvous in Distributed Robotics will provide graduate students a firm grounding in the subject while also offering an authoritative reference work for more experienced workers seeking a brief but thorough treatment of an area that has rapidly gained in interest *Control Subject to Computational and Communication Constraints* Sophie Tarbouriech,Antoine Girard,Laurentiu Hetel,2018-06-01 This book provides a broad overview of the current problems challenges and solutions in the field of control theory communication theory and computational resources

management Recent results on dynamical systems which open new opportunities for research and challenges to be addressed in the future are proposed in the context of computational and communication constraints In order to take into the account complex phenomena such as nonlinearities time varying parameters and limited availability of information the book proposes new approaches for open problems with both theoretical and practical significance The contributors research is centred on robust stability and performance of control loops that are subject to computational and communication constraints A particular focus is placed on the presence of constraints in communication and computation which is a critical issue in networked control systems and cyber physical systems The contributions which rely on the development of novel paradigms are provided are by leading experts in the field from all over the world thus providing readers with the most accurate solutions for the constraints Control subject to Computational and Communication Constraints highlights many problems encountered by control researchers while also informing graduate students of the many interesting ideas at the frontier between control theory information theory and computational theory The book is also a useful point of reference for engineers and practitioners and the survey chapters will assist instructors in lecture preparation Control of Complex Systems Kyriakos Vamvoudakis,Sarangapani Jagannathan,2016-07-27 In the era of cyber physical systems the area of control of complex systems has grown to be one of the hardest in terms of algorithmic design techniques and analytical tools The 23 chapters written by international specialists in the field cover a variety of interests within the broader field of learning adaptation optimization and networked control The editors have grouped these into the following 5 sections Introduction and Background on Control Theory Adaptive Control and Neuroscience Adaptive Learning Algorithms Cyber Physical Systems and Cooperative Control Applications The diversity of the research presented gives the reader a unique opportunity to explore a comprehensive overview of a field of great interest to control and system theorists This book is intended for researchers and control engineers in machine learning adaptive control optimization and automatic control systems including Electrical Engineers Computer Science Engineers Mechanical Engineers Aerospace Automotive Engineers and Industrial Engineers It could be used as a text or reference for advanced courses in complex control systems Collection of chapters from several well known professors and researchers that will showcase their recent work Presents different state of the art control approaches and theory for complex systems Gives algorithms that take into consideration the presence of modelling uncertainties the unavailability of the model the possibility of cooperative non cooperative goals and malicious attacks compromising the security of networked teams Real system examples and figures throughout make ideas concrete Includes chapters from several well known professors and researchers that showcases their recent work Presents different state of the art control approaches and theory for complex systems Explores the presence of modelling uncertainties the unavailability of the model the possibility of cooperative non cooperative goals and malicious attacks compromising the security of networked teams Serves as a helpful reference for researchers and control engineers working with machine learning adaptive control

and automatic control systems **Artificial Intelligence** Sergei O. Kuznetsov,Aleksandr I. Panov,Konstantin S. Yakovlev,2020-09-21 This book constitutes the proceedings of the 18th Russian Conference on Artificial Intelligence RCAI 2020 held in Moscow Russia in October 2020 The 27 full papers and 8 short papers presented in this volume were carefully reviewed and selected from 140 submissions The conference deals with a wide range of topics including data mining and knowledge discovery text mining reasoning decisionmaking natural language processing vision intelligent robotics multi agent systems machine learning AI in applied systems and ontology engineering **Proceedings of the Third International Scientific Conference "Intelligent Information Technologies for Industry" (IITI'18)** Ajith Abraham,Sergey Kovalev,Valery Tarassov,Vaclav Snasel,Andrey Sukhanov,2018-12-06 This book contains papers presented in the main track of IITI 2018 the Third International Scientific Conference on Intelligent Information Technologies for Industry held in Sochi Russia on September 17 21 The conference was jointly co organized by Rostov State Transport University Russia and V B Technical University of Ostrava Czech Republic with the participation of Russian Association for Artificial Intelligence RAAI IITI 2018 was devoted to practical models and industrial applications related to intelligent information systems It was considered as a meeting point for researchers and practitioners to enable the implementation of advanced information technologies into various industries Nevertheless some theoretical talks concerning the state of the art in intelligent systems and soft computing were also included into proceedings Distributed Autonomous Robotic Systems M. Ani Hsieh,Gregory Chirikjian,2014-06-07 Distributed robotics is a rapidly growing and maturing interdisciplinary research area lying at the intersection of computer science network science control theory and electrical and mechanical engineering The goal of the Symposium on Distributed Autonomous Robotic Systems DARS is to exchange and stimulate research ideas to realize advanced distributed robotic systems This volume of proceedings includes 31 original contributions presented at the 2012 International Symposium on Distributed Autonomous Robotic Systems DARS 2012 held in November 2012 at the Johns Hopkins University in Baltimore MD USA The selected papers in this volume are authored by leading researchers from Asia Europa and the Americas thereby providing a broad coverage and perspective of the state of the art technologies algorithms system architectures and applications in distributed robotic systems The book is organized into five parts representative of critical long term and emerging research thrusts in the multi robot community Coordination for Perception Coverage and Tracking Task Allocation and Coordination Strategies Modular Robots and Novel Mechanisms and Sensors Formation Control and Planning for Robot Teams and Learning Adaptation and Cognition for Robot Teams *Emerging Trends in Sliding Mode Control* Axaykumar Mehta,Bijnan Bandyopadhyay,2020-12-21 This book compiles recent developments on sliding mode control theory and its applications Each chapter presented in the book proposes new dimension in the sliding mode control theory such as higher order sliding mode control event triggered sliding mode control networked control higher order discrete time sliding mode control and sliding mode control for multi agent systems Special emphasis has been given to

practical solutions to design involving new types of sliding mode control This book is a reference guide for graduate students and researchers working in the domain for designing sliding mode controllers The book is also useful to professional engineers working in the field to design robust controllers for various applications **Cooperative Coordination and Formation Control for Multi-agent Systems** Zhiyong Sun,2018-02-23 The thesis presents new results on multi agent formation control focusing on the distributed stabilization control of rigid formation shapes It analyzes a range of current research problems such as problems concerning the equilibrium and stability of formation control systems or the problem of cooperative coordination control when agents have general dynamical models and discusses practical considerations arising during the implementation of established formation control algorithms In addition the thesis presents models of increasing complexity from single integrator models to double integrator models to agents modeled by nonlinear kinematic and dynamic equations including the familiar unicycle model and nonlinear system equations with drift terms Presenting the fruits of a close collaboration between several top control groups at leading universities including Yale University Groningen University Purdue University and Gwangju Institute of Science and Technology GIST the thesis spans various research areas including robustness issues in formations quantization based coordination exponential stability in formation systems and cooperative coordination of networked heterogeneous systems Control of Cyber-Physical Systems Danielle C. Tarraf,2013-06-30 Cyber physical systems CPS involve deeply integrated tightly coupled computational and physical components These systems spanning multiple scientific and technological domains are highly complex and pose several fundamental challenges They are also critically important to society s advancement and security The design and deployment of the adaptable reliable CPS of tomorrow requires the development of a basic science foundation synergistically drawing on various branches of engineering mathematics computer science and domain specific knowledge This book brings together 19 invited papers presented at the Workshop on Control of Cyber Physical Systems hosted by the Department of Electrical Computer Engineering at The Johns Hopkins University in March 2013 It highlights the central role of control theory and systems thinking in developing the theory of CPS in addressing the challenges of cyber trust and cyber security and in advancing emerging cyber physical applications ranging from smart grids to smart buildings cars and robotic systems *Applications* Peter Benner,et al.,2020-12-07 An increasing complexity of models used to predict real world systems leads to the need for algorithms to replace complex models with far simpler ones while preserving the accuracy of the predictions This three volume handbook covers methods as well as applications This third volume focuses on applications in engineering biomedical engineering computational physics and computer science Control of Autonomous Aerial Vehicles Andrea L'Afflitto,Gokhan Inalhan,Hyo-Sang Shin,2023-11-20 Control of Autonomous Aerial Vehicles is an edited book that provides a single volume snapshot on the state of the art in the field of control theory applied to the design of autonomous unmanned aerial vehicles UAVs aka drones employed in a variety of applications The homogeneous structure allows the reader to transition seamlessly

through results in guidance navigation and control of UAVs according to the canonical classification of the main components of a UAV s autopilot Each chapter has been written to assist graduate students and practitioners in the fields of aerospace engineering and control theory The contributing authors duly present detailed literature reviews conveying their arguments in a systematic way with the help of diagrams plots and algorithms They showcase the applicability of their results by means of flight tests and numerical simulations the results of which are discussed in detail Control of Autonomous AerialVehicles will interest readers who are researchers practitioners or graduate students in control theory autonomous systems or robotics or in aerospace mechanical or electrical engineering **Submodularity in Dynamics and Control of Networked Systems** Andrew Clark,Basel Alomair,Linda Bushnell,Radha Poovendran,2015-12-21 This book presents a framework for the control of networked systems utilizing submodular optimization techniques The main focus is on selecting input nodes for the control of networked systems an inherently discrete optimization problem with applications in power system stability social influence dynamics and the control of vehicle formations The first part of the book is devoted to background information on submodular functions matroids and submodular optimization and presents algorithms for distributed submodular optimization that are scalable to large networked systems In turn the second part develops a unifying submodular optimization approach to controlling networked systems based on multiple performance and controllability criteria Techniques are introduced for selecting input nodes to ensure smooth convergence synchronization and robustness to environmental and adversarial noise Submodular optimization is the first unifying approach towards guaranteeing both performance and controllability with provable optimality bounds in static as well as time varying networks Throughout the text the submodular framework is illustrated with the help of numerical examples and application based case studies in biological energy and vehicular systems The book effectively combines two areas of growing interest and will be especially useful for researchers in control theory applied mathematics networking or machine learning with experience in submodular optimization but who are less familiar with the problems and tools available for networked systems or vice versa It will also benefit graduate students offering consistent terminology and notation that greatly reduces the initial effort associated with beginning a course of study in a new area **Controllability, Identification, and Randomness in Distributed Systems** Marzieh Nabi-Abdolyousefi,2014-02-12 This interdisciplinary thesis involves the design and analysis of coordination algorithms on networks identification of dynamic networks and estimation on networks with random geometries with implications for networks that support the operation of dynamic systems e g formations of robotic vehicles distributed estimation via sensor networks The results have ramifications for fault detection and isolation of large scale networked systems and optimization models and algorithms for next generation aircraft power systems The author finds novel applications of the methodology in energy systems such as residential and industrial smart energy management systems

Hybrid and Networked Dynamical Systems Romain Postoyan,Paolo Frasca,Elena Panteley,Luca Zaccarian,2024-03-20

Hybrid and Networked Dynamical Systems treats a class of systems that is ubiquitous in everyday life From energy grids to fleets of robots or vehicles to social networks to biological networks the same scenario arises dynamical units interact locally through a connection graph to achieve a global task The book shows how analysis and design tools can be adapted for control applications that combine the effects of network induced interactions and hybrid dynamics with complex results Following a scene setting introduction the remaining 12 chapters of the book are divided into three parts and provide a unique opportunity to describe the big picture that is the culmination of years of recent research activity The contributing authors expand on their ideas at greater length than is possible in an archival research paper and use in depth examples to illustrate their theoretical work The widespread importance of hybrid and networked systems means that the book is of significant interest to academic researchers working in applied mathematics control and electrical mechanical and chemical engineering and to their industrial counterparts **Stability and Control of Large-Scale Dynamical Systems** Wassim M. Haddad,Sergey G. Nersesov,2011-11-14 Modern complex large scale dynamical systems exist in virtually every aspect of science and engineering and are associated with a wide variety of physical technological environmental and social phenomena including aerospace power communications and network systems to name just a few This book develops a general stability analysis and control design framework for nonlinear large scale interconnected dynamical systems and presents the most complete treatment on vector Lyapunov function methods vector dissipativity theory and decentralized control architectures Large scale dynamical systems are strongly interconnected and consist of interacting subsystems exchanging matter energy or information with the environment The sheer size or dimensionality of these systems necessitates decentralized analysis and control system synthesis methods for their analysis and design Written in a theorem proof format with examples to illustrate new concepts this book addresses continuous time discrete time and hybrid large scale systems It develops finite time stability and finite time decentralized stabilization thermodynamic modeling maximum entropy control and energy based decentralized control This book will interest applied mathematicians dynamical systems theorists control theorists and engineers and anyone seeking a fundamental and comprehensive understanding of large scale interconnected dynamical systems and control *Analysis and Control of Complex Dynamical Systems* Kazuyuki Aihara,Jun-ichi Imura,Tetsushi Ueta,2015-03-20 This book is the first to report on theoretical breakthroughs on control of complex dynamical systems developed by collaborative researchers in the two fields of dynamical systems theory and control theory As well its basic point of view is of three kinds of complexity bifurcation phenomena subject to model uncertainty complex behavior including periodic quasi periodic orbits as well as chaotic orbits and network complexity emerging from dynamical interactions between subsystems Analysis and Control of Complex Dynamical Systems offers a valuable resource for mathematicians physicists and biophysicists as well as for researchers in nonlinear science and control engineering allowing them to develop a better fundamental understanding of the analysis and control synthesis of such complex systems

Simulation and Modeling Methodologies, Technologies and Applications Mohammad S. Obaidat,Slawomir Koziel,Janusz Kacprzyk,Leifur Leifsson,Tuncer Ören,2014-10-21 This book includes extended and revised versions of a set of selected papers from the 3rd International Conference on Simulation and Modeling Methodologies Technologies and Applications SIMULTECH 2013 which was co organized by the Reykjavik University RU and sponsored by the Institute for Systems and Technologies of Information Control and Communication INSTICC SIMULTECH 2013 was held in cooperation with the ACM SIGSIM Special Interest Group SIG on SImulation and Modeling SIM Movimento Italiano Modellazione e Simulazione MIMOS and AIS Special Interest Group on Modeling and Simulation AIS SIGMAS and technically co sponsored by the Society for Modeling Simulation International SCS Liophant Simulation Simulation Team and International Federation for Information Processing IFIP This proceedings brings together researchers engineers applied mathematicians and practitioners working in the advances and applications in the field of system simulation **Viability Theory** Jean-Pierre Aubin,Alexandre M. Bayen,Patrick Saint-Pierre,2011-07-13 Viability theory designs and develops mathematical and algorithmic methods for investigating the adaptation to viability constraints of evolutions governed by complex systems under uncertainty that are found in many domains involving living beings from biological evolution to economics from environmental sciences to financial markets from control theory and robotics to cognitive sciences It involves interdisciplinary investigations spanning fields that have traditionally developed in isolation The purpose of this book is to present an initiation to applications of viability theory explaining and motivating the main concepts and illustrating them with numerous numerical examples taken from various fields **Opinion Dynamics and the Evolution of Social Power in Social Networks** Mengbin Ye,2019-02-19 This book uses rigorous mathematical analysis to advance opinion dynamics models for social networks in three major directions First a novel model is proposed to capture how a discrepancy between an individual s private and expressed opinions can develop due to social pressures that arise in group situations or through extremists deliberately shaping public opinion Detailed theoretical analysis of the final opinion distribution is followed by use of the model to study Asch s seminal experiments on conformity and the phenomenon of pluralistic ignorance Second the DeGroot Friedkin model for evolution of an individual s social power self confidence is developed in a number of directions The key result establishes that an individual s initial social power is forgotten exponentially fast even when the network changes over time eventually an individual s social power depends only on the changing network structure Last a model for the simultaneous discussion of multiple logically interdependent topics is proposed To ensure that a consensus across the opinions of all individuals is achieved it turns out that the interpersonal interactions must be weaker than an individual s introspective cognitive process for establishing logical consistency among the topics Otherwise the individual may experience cognitive overload and the opinion system becomes unstable Conclusions of interest to control engineers social scientists and researchers from other relevant disciplines are discussed throughout the thesis with support from both social science and

control literature

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