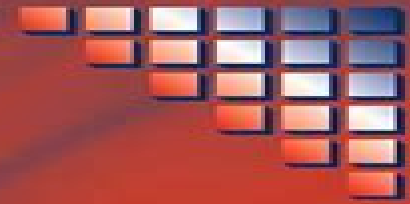


Communications and Control Engineering



Frank L. Lewis
Hongwei Zhang
Kristian Hengster-Movric
Abhijit Das

Cooperative Control of Multi-Agent Systems

Optimal and Adaptive Design
Approaches

 Springer

Cooperative Control Of Multi Agent Systems Optimal And Adaptive Design Approaches Communications And Control Engineering

Hossein Rastgoftar



Cooperative Control Of Multi Agent Systems Optimal And Adaptive Design Approaches Communications And Control Engineering:

Cooperative Control of Multi-Agent Systems Frank L. Lewis, Hongwei Zhang, Kristian Hengster-Movric, Abhijit Das, 2013-12-31 Cooperative Control of Multi Agent Systems extends optimal control and adaptive control design methods to multi agent systems on communication graphs It develops Riccati design techniques for general linear dynamics for cooperative state feedback design cooperative observer design and cooperative dynamic output feedback design Both continuous time and discrete time dynamical multi agent systems are treated Optimal cooperative control is introduced and neural adaptive design techniques for multi agent nonlinear systems with unknown dynamics which are rarely treated in literature are developed Results spanning systems with first second and on up to general high order nonlinear dynamics are presented Each control methodology proposed is developed by rigorous proofs All algorithms are justified by simulation examples The text is self contained and will serve as an excellent comprehensive source of information for researchers and graduate students working with multi agent systems *Kooperative Regelungskonzepte auf Basis der Spieltheorie und deren Anwendung auf Fahrerassistenzsysteme* Flad, Michael, 2017-05-09 Cooperative control loops in which human and a technical automation system perform a control task in close cooperation are investigated A control framework is proposed which is based on a formal description of the cooperative control problem The main idea of the control algorithm is to solve a differential game on a sliding horizon The concept has been applied to design two cooperative advanced driver assistance systems One for the longitudinal driving task one for the lateral driving task Cooperative Control of Multi-Agent Systems Zhongkui Li, Zhisheng Duan, 2017-12-19 Distributed controller design is generally a challenging task especially for multi agent systems with complex dynamics due to the interconnected effect of the agent dynamics the interaction graph among agents and the cooperative control laws Cooperative Control of Multi Agent Systems A Consensus Region Approach offers a systematic framework for designing distributed controllers for multi agent systems with general linear agent dynamics linear agent dynamics with uncertainties and Lipschitz nonlinear agent dynamics Beginning with an introduction to cooperative control and graph theory this monograph Explores the consensus control problem for continuous time and discrete time linear multi agent systems Studies the H_1 and H_2 consensus problems for linear multi agent systems subject to external disturbances Designs distributed adaptive consensus protocols for continuous time linear multi agent systems Considers the distributed tracking control problem for linear multi agent systems with a leader of nonzero control input Examines the distributed containment control problem for the case with multiple leaders Covers the robust cooperative control problem for multi agent systems with linear nominal agent dynamics subject to heterogeneous matching uncertainties Discusses the global consensus problem for Lipschitz nonlinear multi agent systems Cooperative Control of Multi Agent Systems A Consensus Region Approach provides a novel approach to designing distributed cooperative protocols for multi agent

systems with complex dynamics The proposed consensus region decouples the design of the feedback gain matrices of the cooperative protocols from the communication graph and serves as a measure for the robustness of the protocols to variations of the communication graph By exploiting the decoupling feature adaptive cooperative protocols are presented that can be designed and implemented in a fully distributed fashion

RETRACTED BOOK: Control Design of Multiagent Discrete-Time Systems MagdiSadek Mahmoud,Bilal J. Karaki,2022-03-16 This book describes an effective approach to the cooperative and coordinated control of multivehicle systems This rigorous analytic approach guarantees the stability of coordinated and cooperating vehicles using distributed protocols and uses low energy event triggered mechanisms for networked vehicle control The text covers design of a cooperative protocol to achieve consensus for multivehicle systems allowing cooperation that is resistant to the effects of packet loss and or adversarial attack analysis and synthesis of an event triggering mechanism for cooperative multivehicle systems over uncertain networks and the problem of distributed leader following consensus and methods for compelling multivehicle systems to reach consensus Throughout the book cooperation problems are transformed into stability problems Lyapunov theory is used to guarantee cooperation among agents The distributed approach is applied to triggering mechanisms the cooperation process and the impact of cyber attacks Discrete time analysis shows how the event based structure can be designed to match the performance of continuous time counterparts The book details applications and computer simulation with several practical examples This book is of interest to a wide audience from the graduate student through the academic researcher to the industrial practitioner all of them sharing a common interest in the stability and security of multiagent systems

Distributed Cooperative Control and Communication for Multi-agent Systems Dong Yue,Huaipin Zhang,Shengxuan Weng,2021-02-15 This book investigates distributed cooperative control and communication of MASs including linear systems nonlinear systems and multiple rigid body systems The model based and data driven control method are employed to design the optimal cooperative control protocol The approaches of this book consist of model based and data driven control such as predictive control event triggered control optimal control adaptive dynamic programming etc From this book readers can learn about distributed cooperative control methods data driven control finite time stability analysis cooperative attitude control of multiple rigid bodies Some fundamental knowledge prepared to read this book is finite time stability theory event triggered sampling mechanism adaptive dynamic programming and optimal control

Resilient Cooperative Control and Optimization of Multi-Agent Systems Zhi Feng,Xiwang Dong,Guoqiang Hu,Jinhu Lyu,2025-02-03 Resilient Cooperative Control and Optimization of Multi Agent Systems addresses various resilient cooperative control and optimization problems of multi agent systems that are vulnerable to physical failure and cyber attacks and consist of multiple decision making agents that interact in a shared environment to achieve common or conflicting goals Critical infrastructures such as smart grids wireless sensor network multi robot system etc are typical examples of multi agent systems that consist of the large scale physical processes

which are monitored and controlled over a set of communication networks and computers Presents solutions to different resilient cooperative control and optimization problems of multi agent systems Includes a wealth of examples on attack resilient consensus control time varying formation tracking control distributed optimization and distributed Nash equilibrium game seeking Shows in detail the practicalities of how to develop an attack resilient cooperative control and optimization framework

Proceedings of the 4th International Conference on Informatics, Technology and Engineering 2023 (InCITE 2023) Markus Hartono,Hudiyo Firmanto,Connie Susilawati,2023-11-18 This is an open access book Adaptive Resilient Collaborative EngineeringTowards Faster Recovery Impactful Solutions The world in the last decade has been facing global issues such as accelerated global warming depleting natural resources food waste and scarcity water contamination and shortage energy conservation etc Enter the COVID 19 pandemic in 2020 and we face what people term as double disruption Not only solutions to the above problems are becoming more critical but they are also needed fast Timely and effective solutions are called for so that we can recover from the pandemic while at the same time carry our efforts to better our world It is no longer sufficient to find solutions that can only delay the negative impacts from the above problems but it is imperative to tip the balance and reverse the impacts to our advantage Engineers and engineering have a vital role in inventing mechanisms systems and or products that can address the solutions Digital technologies and artificial intelligence have been at the forefront of such exploration and we can expect some hints for a better future if we continue being adaptive resilient and collaborative Given the above background Faculty of Engineering Universitas Surabaya will host the fourth bi annual international conference The 4th International Conference on Informatics Technology and Engineering 2023 InCITE 2023 in Yogyakarta Indonesia September 14th 15th 2023 This event is a continuation of the past events successfully held in 2017 2019 and 2021 We invite academia and business practitioners all around the globe to share ideas and best practices relevant to the above conference topic We hope that this event can also serve as a platform of gathering for anyone interested in exploring potential solutions of our common problems today Accepted and presented paper will be submitted for publication in reputable International Proceeding Atlantis Press See you in Yogyakarta

Distributed Cooperative Control and Optimization for Multi-Agent Systems Qing Wang,Bin Xin,Jie Chen,2025-03-02 This book provides a concise and in depth exposition of distributed control and optimization problems of multi agent systems The book integrates various ideas and tools from dynamic systems control theory graph theory and optimization to address the special challenges posed by such complexities in the environment as communication delay topological dynamics and environmental uncertainties In order to deal with the mismatched uncertainties and time delay observer based controller and sliding mode control are developed to achieve consensus control When there is a leader or multiple leaders in the communication topologies containment control is required The book studies both state and output containment for nonlinear multi agent systems with undirected or directed networks Furthermore event triggered schemes are proposed to reduce communication

and computation costs Distributed optimization for multi agent systems is an interesting topic that has attracted more and more attention due to its wide range of applications such as smart grids sensor networks and mobile manipulators In distributed optimization the goal is to optimize the global cost function which is the sum of all local cost functions each of which is known only by its own local agent Distributed nonsmooth convex optimization for multi agent systems based on proximal operators is developed to achieve distributed optimal consensus

Optimization, Learning, and Control for Interdependent Complex Networks M. Hadi Amini, 2020-02-22 This book focuses on a wide range of optimization learning and control algorithms for interdependent complex networks and their role in smart cities operation smart energy systems and intelligent transportation networks It paves the way for researchers working on optimization learning and control spread over the fields of computer science operation research electrical engineering civil engineering and system engineering This book also covers optimization algorithms for large scale problems from theoretical foundations to real world applications learning based methods to enable intelligence in smart cities and control techniques to deal with the optimal and robust operation of complex systems It further introduces novel algorithms for data analytics in large scale interdependent complex networks Specifies the importance of efficient theoretical optimization and learning methods in dealing with emerging problems in the context of interdependent networks Provides a comprehensive investigation of advance data analytics and machine learning algorithms for large scale complex networks Presents basics and mathematical foundations needed to enable efficient decision making and intelligence in interdependent complex networks M Hadi Amini is an Assistant Professor at the School of Computing and Information Sciences at Florida International University FIU He is also the founding director of Sustainability Optimization and Learning for InterDependent networks laboratory solid lab He received his Ph D and M Sc from Carnegie Mellon University in 2019 and 2015 respectively He also holds a doctoral degree in Computer Science and Technology Prior to that he received M Sc from Tarbiat Modares University in 2013 and the B Sc from Sharif University of Technology in 2011

Synchronization and Control of Multiagent Systems Dong Sun, 2018-10-09 Multiple intelligent agent systems are commonly used in research requiring complex behavior Synchronization control provides an advantage in solving the problem of multi agent coordination This book focuses on the use of synchronization control to coordinate the group behavior of multiple agents The author includes numerous real world applicatio

Next Generation Computing Technologies on Computational Intelligence Manish Prateek, Durgansh Sharma, Rajeev Tiwari, Rashmi Sharma, Kamal Kumar, Neeraj Kumar, 2019-11-23 The 18 full and 13 short papers presented were carefully reviewed and selected from 255 submissions There were organized in topical sections named Image Processing Pattern Analysis and Machine Vision Information and Data Convergence Disruptive Technologies for Future E Governance and Smart World

UAV Swarm Networks: Models, Protocols, and Systems Fei Hu, DongXiu Ou, Xin-lin Huang, 2020-12-28 UAV swarm network has been used in many critical applications such as disaster recovery area surveillance weather monitoring and military communications

There are many challenging R 2 college graduate students or researchers who may want to pursue some advanced research on large scale UAV swarming and networking technologies 3 government agencies that determine the future society development in this exciting field and 4 other interested readers with a strong desire to understand the challenges of designing a QoS oriented UAV network The book editors are Dr Fei Hu Professor in Electrical and Computer Engineering at University of Alabama Tuscaloosa Alabama USA Dr Xin Lin Huang Professor in Information and Communication Engineering Tongji University Shanghai China and Dr DongXiu Ou Professor in Transportation Information Institute at Tongji University Shanghai China

Proceedings of the 11th National Technical Seminar on Unmanned System Technology 2019 Zainah Md Zain,Hamzah Ahmad,Dwi Pebrianti,Mahfuzah Mustafa,Nor Rul Hasma Abdullah,Rosdiyana Samad,Maziyah Mat Noh,2020-07-07 This book includes research papers from the 11th National Technical Symposium on Unmanned System Technology Covering a number of topics including intelligent robotics novel sensor technology control algorithms acoustics signal processing imaging techniques biomimetic robots green energy sources and underwater communication backbones and protocols it will appeal to researchers developing marine technology solutions and policy makers interested in technologies to facilitate the exploration of coastal and oceanic regions

Advances in Security, Networks, and Internet of Things Kevin Daimi,Hamid R. Arabnia,Leonidas Deligiannidis,Min-Shiang Hwang,Fernando G. Tinetti,2021-07-10 The book presents the proceedings of four conferences The 19th International Conference on Security Includes the tracks on security Features papers from SAM 20 ICWN 20 ICOMP 20 and ESCS 20

Advanced Vehicle Control Johannes Edelmann,Manfred Plöchl,Peter Pfeffer,2016-12-19 The AVEC symposium is a leading international conference in the fields of vehicle dynamics and advanced vehicle control bringing together scientists and engineers from academia and automotive industry The first symposium was held in 1992 in Yokohama Japan Since then biennial AVEC symposia have been established internationally and have considerably contributed to the progress of technology in automotive research and development In 2016 the 13th International Symposium on Advanced Vehicle Control AVEC 16 was held in Munich Germany from 13th to 16th of September 2016 The symposium was hosted by the Munich University of Applied Sciences AVEC 16 puts a special focus on automatic driving autonomous driving functions and driver assist systems integrated control of interacting control systems controlled suspension systems active wheel torque distribution and vehicle state and parameter estimation 132 papers were presented at the symposium and are published in these proceedings as full paper contributions The papers review the latest research developments and practical applications in highly relevant areas of vehicle control and may serve as a reference for researchers and engineers

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

Computational Intelligence in Emerging Technologies for Engineering Applications Orestes Llanes Santiago, Carlos Cruz Corona, Antônio José Silva Neto, José Luis Verdegay, 2020-02-14

This book explores applications of computational intelligence in key and emerging fields of engineering especially with regard to condition monitoring and fault diagnosis inverse problems decision support systems and optimization These applications can be beneficial in a broad range of contexts including water distribution networks manufacturing systems production and storage of electrical energy heat transfer acoustic levitation uncertainty and robustness of infinite dimensional objects fatigue failure prediction autonomous navigation nanotechnology and the analysis of technological development indexes All applications mathematical and computational tools and original results are presented using rigorous mathematical procedures Further the book gathers contributions by respected experts from 22 different research centers and eight countries Brazil Cuba France Hungary India Japan Romania and Spain The book is intended for use in graduate courses on applied computation applied mathematics and engineering where tools like computational intelligence and numerical methods are applied to the solution of real world problems in emerging areas of engineering

Cooperative Optimal Control of Hybrid Energy Systems Dong Yue, Huifeng Zhang, Chunxia Dou, 2021-02-15

This book mainly investigates the cooperative optimal control of hybrid energy system it presents security control multi objective optimization distributed optimization and distributed control approaches for tackling with security economic and stability problem of the hybrid energy system It aims to solve some challenging problems including security issue economic cost or benefits from both power generation side and load demand side and coordination among different power generators The methods proposed in this book is novel and attractive it consists of the hierarchical optimal control strategy for the security issue multi objective optimization for both economic and emission issue and distributed optimal control for coordination among power generators Readers can learn novel methods or technique for tackling with the security issue multiple objective problem and distributed coordination problem It also may inspire readers to improve some drawbacks of existing alternatives Some fundamental knowledge prepared to read this book includes basic principles of the multi agents

system robust optimization Pareto dominance optimization and background of electrical engineering and renewable energy
AI, Sensors and Robotics in Plant Phenotyping and Precision Agriculture, Volume II Yongliang Qiao, João Valente, Yu
Jiang, Zhao Zhang, Dongjian He, Daobilige Su, 2023-07-03 Springer Handbook of Automation Shimon Y. Nof, 2023-06-16
This handbook incorporates new developments in automation It also presents a widespread and well structured
conglomeration of new emerging application areas such as medical systems and health transportation security and
maintenance service construction and retail as well as production or logistics The handbook is not only an ideal resource for
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