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Submodularity in Dynamics and Control of Networked Systems

With a Foreword by John Baillieul

Nice Book Submodularity Dynamics Networked Communications Engineering

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Nice Book Submodularity Dynamics Networked Communications 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.

Submodular Rate Region Models for Multicast Communication in Wireless Networks

Maximilian Riemensberger, 2017-08-29 This book proposes representations of multicast rate regions in wireless networks based on the mathematical concept of submodular functions e.g. the submodular cut model and the polymatroid broadcast model. These models subsume and

generalize the graph and hypergraph models. The submodular structure facilitates a dual decomposition approach to network utility maximization problems which exploits the greedy algorithm for linear programming on submodular polyhedra. This approach yields computationally efficient characterizations of inner and outer bounds on the multicast capacity regions for various classes of wireless networks.

Communication and Control for Networked Complex Systems Chen Peng, Dong Yue, Qing-Long Han, 2015 This book reports on the latest advances in the study of Networked Control Systems (NCSs). It highlights novel research concepts on NCSs, the analysis and synthesis of NCSs with special attention to their networked character, self and event triggered communication schemes for conserving limited network resources and communication and control co-design for improving the efficiency of NCSs. The book will be of interest to university researchers, control and network engineers and graduate students in the control engineering, communication and network sciences interested in learning the core principles, methods, algorithms and applications of NCSs.

Optimal Control of Energy Resources for

State Estimation Over Wireless Channels Alex S. Leong, Daniel E. Quevedo, Subhrakanti Dey, 2017-08-16 This brief introduces wireless communications ideas and techniques into the study of networked control systems. It focuses on state estimation problems in which sensor measurements or related quantities are transmitted over wireless links to a central observer. Wireless communications techniques are used for energy resource management in order to improve the performance of the estimator when transmission occurs over packet dropping links taking energy use into account explicitly in Kalman filtering and control. The brief allows a reduction in the conservatism of control designs by taking advantage of the assumed. The brief shows how energy harvesting based rechargeable batteries or storage devices can offer significant advantages in the deployment of large scale wireless sensor and actuator networks by avoiding the cost prohibitive task of battery replacement and allowing self sustaining sensor to be operational. In contrast with research on energy harvesting largely focused on resource allocation for wireless communication systems design this brief optimizes estimation objectives such as minimizing the expected estimation error covariance. The resulting power control problems are often stochastic control problems which take into account both system and channel dynamics. The authors show how to pose and solve such design problems using dynamic programming techniques. Researchers and graduate students studying networked control systems will find this brief a helpful source of new ideas and research approaches.

Analysis and Design for Networked

Teleoperation System Changchun Hua, Yana Yang, Xian Yang, Xinping Guan, 2019-06-07 This book presents cutting edge results on stability analysis and control scheme designs for networked teleoperation systems. It highlights new research on commonly encountered nonlinear teleoperation systems including the stability analysis of teleoperation systems with asymmetric time varying delays, stability analysis of teleoperation systems with interval time delays and so on. Moreover the book presents several high performance control scheme designs for teleoperation systems when the velocity is available and unavailable and for systems with nonlinear input. The results presented here mark a substantial contribution to nonlinear teleoperation system theory, robotic control theory and networked control system theory. As such the book will be of interest to university researchers, R&D engineers and graduate students in control theory and control engineering who wish to learn about the core principles, methods, algorithms and applications of networked teleoperation systems, robotic systems and nonlinear control systems.

Submodularity and Its Applications in Wireless Communications Ni Ding, 2017 This monograph studies the submodularity in wireless communications and how to use it to enhance or improve the design of the optimization algorithms. The work is done in three different systems. In a cross layer adaptive modulation problem we prove the submodularity of the dynamic programming DP which contributes to the monotonicity of the optimal transmission policy. The monotonicity is utilized in a policy iteration algorithm to relieve the curse of dimensionality of DP. In addition we show that the monotonic optimal policy can be determined by a multivariate minimization problem which can be solved by a discrete simultaneous perturbation stochastic approximation DSPSA algorithm. We show that the DSPSA is able to converge to the

optimal policy in real time For the adaptive modulation problem in a network coded two way relay channel a two player game model is proposed We prove the supermodularity of this game which ensures the existence of pure strategy Nash equilibria PSNEs We apply the Cournot tatonnement and show that it converges to the extremal the largest and smallest PSNEs within a finite number of iterations We derive the sufficient conditions for the extremal PSNEs to be symmetric and monotonic in the channel signal to noise SNR ratio Based on the submodularity of the entropy function we study the communication for omniscience CO problem how to let all users obtain all the information in a multiple random source via communications In particular we consider the minimum sum rate problem how to attain omniscience by the minimum total number of communications The results cover both asymptotic and non asymptotic models where the transmission rates are real and integral respectively We reveal the submodularity of the minimum sum rate problem and propose polynomial time algorithms for solving it We discuss the significance and applications of the fundamental partition the one that gives rise to the minimum sum rate in the asymptotic model We also show how to achieve the omniscience in a successive manner

This book delves into Nice Book Submodularity Dynamics Networked Communications Engineering. Nice Book Submodularity Dynamics Networked Communications Engineering is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Nice Book Submodularity Dynamics Networked Communications Engineering, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:

- Chapter 1: Introduction to Nice Book Submodularity Dynamics Networked Communications Engineering
- Chapter 2: Essential Elements of Nice Book Submodularity Dynamics Networked Communications Engineering
- Chapter 3: Nice Book Submodularity Dynamics Networked Communications Engineering in Everyday Life
- Chapter 4: Nice Book Submodularity Dynamics Networked Communications Engineering in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Nice Book Submodularity Dynamics Networked Communications Engineering. The first chapter will explore what Nice Book Submodularity Dynamics Networked Communications Engineering is, why Nice Book Submodularity Dynamics Networked Communications Engineering is vital, and how to effectively learn about Nice Book Submodularity Dynamics Networked Communications Engineering.
3. In chapter 2, this book will delve into the foundational concepts of Nice Book Submodularity Dynamics Networked Communications Engineering. This chapter will elucidate the essential principles that must be understood to grasp Nice Book Submodularity Dynamics Networked Communications Engineering in its entirety.
4. In chapter 3, this book will examine the practical applications of Nice Book Submodularity Dynamics Networked Communications Engineering in daily life. This chapter will showcase real-world examples of how Nice Book Submodularity Dynamics Networked Communications Engineering can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Nice Book Submodularity Dynamics Networked Communications Engineering in specific contexts. The fourth chapter will explore how Nice Book Submodularity Dynamics Networked Communications Engineering is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Nice Book Submodularity Dynamics Networked Communications Engineering. This chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Nice Book Submodularity Dynamics Networked Communications Engineering.

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