Andrew Clark
Basel Alomair
Linda Bushnell
Radha Poovendran

# Submodularity in Dynamics and Control of Networked Systems

With a Foreword by John Baillieul

Springer

# Nice Submodularity Dynamics Networked Communications Engineering

**Alex S. Leong,Daniel E.**
**Quevedo,Subhrakanti Dey**

**Nice 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     Handbook of Dynamic Data Driven Applications Systems Erik Blasch,Sai Ravela,Alex Aved,2018-11-13 The Handbook of Dynamic Data Driven Applications Systems establishes an authoritative reference of DDDAS pioneered by Dr Darema and the co authors for researchers and practitioners developing DDDAS technologies Beginning with general concepts and history of the paradigm the text provides 32 chapters by leading experts in10 application areas to enable an accurate understanding analysis and control of complex systems be they natural engineered or societal Earth and Space Data Assimilation Aircraft Systems Processing Structures Health Monitoring Biological Data Assessment Object and Activity Tracking Embedded Control and Coordination Energy Aware Optimization Image and Video Computing Security and Policy Coding Systems Design The authors explain how DDDAS unifies the computational and instrumentation aspects of an application system extends the notion of Smart Computing to span from the high end to the real time data acquisition and control and manages Big Data exploitation with high dimensional model coordination     *Mathematical Programming The State of the Art* A. Bachem,M. Grötschel,B. Korte,2012-12-06 In the late forties Mathematical Programming became a scientific discipline in its own right Since then it has experienced a tremendous growth Beginning with economic and military applications it is now among the most important fields of applied mathematics with extensive use in engineering natural sciences economics and biological

sciences The lively activity in this area is demonstrated by the fact that as early as 1949 the first Symposium on Mathe matical Programming took place in Chicago Since then mathematical programmers from all over the world have gath ered at the intfrnational symposia of the Mathematical Programming Society roughly every three years to present their recent research to exchange ideas with their colleagues and to learn about the latest developments in their own and related fields In 1982 the XI International Symposium on Mathematical Programming was held at the University of Bonn W Germany from August 23 to 27 It was organized by the Institut fUr Okonometrie und Operations Re search of the University of Bonn in collaboration with the Sonderforschungs bereich 21 of the Deutsche Forschungsgemeinschaft This volume constitutes part of the outgrowth of this symposium and docu ments its scientific activities Part I of the book contains information about the symposium welcoming addresses lists of committees and sponsors and a brief review about the Ful kerson Prize and the Dantzig Prize which were awarded during the opening ceremony **STOC 08** STOC (40, 2008, Victoria, British Columbia),STOC. 40, 2008, Victoria, British Columbia,2008 Dissertation Abstracts International ,2005 **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 **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 **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 operation 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

Unveiling the Magic of Words: A Report on "**Nice Submodularity Dynamics Networked Communications Engineering**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Nice Submodularity Dynamics Networked Communications Engineering**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

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