Andrew Clark
Basel Alomair
Linda Bushnell
Radha Poovendran

Submodularity in Dynamics and Control of Networked Systems

With a Foreword by John Baillieul

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Nice Submodularity Dynamics Networked Communications Engineering

Andrew Clark,Basel Alomair,Linda Bushnell,Radha Poovendran

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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 **Cognitive Radio Oriented Wireless Networks** Paulo Marques,Ayman Radwan,Shahid Mumtaz,Dominique Noguet,Jonathan Rodriguez,Michael Gundlach,2018-02-26 This book constitutes the thoroughly refereed conference proceedings of the 12th International Conference on Cognitive Radio Oriented Wireless Networks CROWNCOM 2017 held in Lisbon Portugal in September 2017 The 28 revised full papers presented were carefully reviewed and selected from numerous submissions and cover the evolution of cognitive radio technology pertaining to 5G networks The papers are clustered to topics on spectrum management network management trials test beds and tools PHY and sensing spectrum management *Advances in Electrical Engineering and Automation* Anne Xie,Xiong Huang,2012-02-02 EEA2011 is an integrated conference concentration its focus on Electrical Engineering and Automation In the proceeding you can learn much more knowledge about Electrical Engineering and Automation of researchers from all around the world The main role of the proceeding is to be used as an exchange pillar for researchers who are working in the mentioned fields In order to meet the high quality of Springer AISC series the organization committee has made their efforts to do the following things Firstly poor quality paper has been refused after reviewing course by anonymous referee experts Secondly periodically review meetings have been held around the reviewers about five times for exchanging reviewing suggestions Finally the conference organizers had several

preliminary sessions before the conference Through efforts of different people and departments the conference will be successful and fruitful **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 Complex Networks VIII Bruno Gonçalves,Ronaldo Menezes,Roberta Sinatra,Vinko Zlatic,2017-03-01 This book collects the works presented at the 8th International Conference on Complex Networks CompleNet 2017 in Dubrovnik Croatia on March 21 24 2017 CompleNet aims at bringing together researchers and practitioners working in areas related to complex networks The past two decades has witnessed an exponential increase in the number of publications within this field From biological systems to computer science from economic to social systems complex networks are becoming pervasive in many fields of science It is this interdisciplinary nature of complex networks that CompleNet aims at

addressing The last decades have seen the emergence of complex networks as the language with which a wide range of complex phenomena in fields as diverse as physics computer science and medicine to name a few can be properly described and understood This book provides a view of the state of the art in this dynamic field and covers topics such as network controllability social structure online behavior recommendation systems and network structure **Computer Supported Cooperative Work and Social Computing** Hailong Sun,Hongfei Fan,Yongqiang Gao,Xiaokang Wang,Dongning Liu,Bowen Du,Tun Lu,2025-03-04 This two part LNCS volumes constitutes the refereed proceedings of the 19th CCF Conference on Computer Supported Cooperative Work and Social Computing ChineseCSCW 2024 held in Hohhot China in July 12 14 2024 The 52 full papers and 18 short papers included in this book were carefully reviewed and selected from 200 submissions They were organized in topical sections as follows Part I Trend CSCW and Social Computing and Human Machine Things Fusion and Human AI Collaborative Computing Part II Crowd Cooperative Computing and Evolutionary Computation and Collaborative Data Software and Services **Mathematical Communications** ,1996 *Applications of Combinatorial Optimization* Vangelis Th. Paschos,2014-09-15 Combinatorial optimization is a multidisciplinary scientific area lying in the interface of three major scientific domains mathematics theoretical computer science and management The three volumes of the Combinatorial Optimization series aim to cover a wide range of topics in this area These topics also deal with fundamental notions and approaches as with several classical applications of combinatorial optimization Concepts of Combinatorial Optimization is divided into three parts On the complexity of combinatorial optimization problems presenting basics about worst case and randomized complexity Classical solution methods presenting the two most known methods for solving hard combinatorial optimization problems that are Branch and Bound and Dynamic Programming Elements from mathematical programming presenting fundamentals from mathematical programming based methods that are in the heart of Operations Research since the origins of this field **IoT for Defense and National Security** Robert Douglass,Keith Gremban,Ananthram Swami,Stephan Gerali,2023-01-04 IoT for Defense and National Security Practical case based guide illustrating the challenges and solutions of adopting IoT in both secure and hostile environments IoT for Defense and National Security covers topics on IoT security architecture robotics sensing policy operations and more including the latest results from the premier IoT research initiative of the U S Defense Department the Internet of Battle Things The text also discusses challenges in converting defense industrial operations to IoT and summarizes policy recommendations for regulating government use of IoT in free societies As a modern reference this book covers multiple technologies in IoT including survivable tactical IoT using content based routing mobile ad hoc networks and electronically formed beams Examples of IoT architectures include using KepServerEX for edge connectivity and AWS IoT Core and Amazon S3 for IoT data To aid in reader comprehension the text uses case studies illustrating the challenges and solutions for using robotic devices in defense applications plus case studies on using IoT for a defense industrial base Written by leading researchers

and practitioners of IoT technology for defense and national security IoT for Defense and National Security also includes information on Changes in warfare driven by IoT weapons logistics and systems IoT resource allocation monitoring existing resources and reallocating them in response to adversarial actions Principles of AI enabled processing for Internet of Battlefield Things including machine learning and inference Vulnerabilities in tactical IoT communications networks servers and architectures and strategies for securing them Adapting rapidly expanding commercial IoT to power IoT for defense For application engineers from defense related companies as well as managers policy makers and academics IoT for Defense and National Security is a one of a kind resource providing expansive coverage of an important yet sensitive topic that is often shielded from the public due to classified or restricted distributions **Parallel Problem Solving from Nature – PPSN XVIII** Michael Affenzeller,Stephan M. Winkler,Anna V. Kononova,Heike Trautmann,Tea Tušar,Penousal Machado,Thomas Bäck,2024-09-06 This multi volume LNCS set LNCS 15148 15151 constitutes the refereed proceedings of the 18th International Conference on Parallel Problem Solving from Nature PPSN 2024 held in Hagenberg Austria in September 2024 The 101 full papers presented in these proceedings were carefully reviewed and selected from 294 submissions The papers presented in these four volumes are organized in the following topical sections Part I Combinatorial Optimization Genetic Programming Fitness Landscape Modeling and Analysis Part II Benchmarking and Performance Measures Automated Algorithm Selection and Configuration Numerical Optimization Bayesian and Surrogate Assisted Optimization Part III Theoretical Aspects of Nature Inspired Optimization Evolutionary Machine Learning and Neuroevolution Evolvable Hardware and Evolutionary Robotics Part IV Multi Objective Optimization Real World Applications **Handbook of Markov Decision Processes** Eugene A. Feinberg,Adam Shwartz,2012-12-06 Eugene A Feinberg Adam Shwartz This volume deals with the theory of Markov Decision Processes MDPs and their applications Each chapter was written by a leading expert in the re spective area The papers cover major research areas and methodologies and discuss open questions and future research directions The papers can be read independently with the basic notation and concepts ofSection 1 2 Most chap ters should be accessible by graduate or advanced undergraduate students in fields of operations research electrical engineering and computer science 1 1 AN OVERVIEW OF MARKOV DECISION PROCESSES The theory of Markov Decision Processes also known under several other names including sequential stochastic optimization discrete time stochastic control and stochastic dynamic programming studiessequential optimization ofdiscrete time stochastic systems The basic object is a discrete time stochas tic system whose transition mechanism can be controlled over time Each control policy defines the stochastic process and values of objective functions associated with this process The goal is to select a good control policy In real life decisions that humans and computers make on all levels usually have two types ofimpacts i they cost orsavetime money or other resources or they bring revenues as well as ii they have an impact on the future by influencing the dynamics In many situations decisions with the largest immediate profit may not be good in view offuture events MDPs model this paradigm

and provide results on the structure and existence of good policies and on methods for their calculation   *Model Engineering for Simulation* Lin Zhang,Bernard P. Zeigler,Yuanjun LaiLi,2019-02-27 Model Engineering for Simulation provides a systematic introduction to the implementation of generic normalized and quantifiable modeling and simulation using DEVS formalism It describes key technologies relating to model lifecycle management including model description languages complexity analysis model management service oriented model composition quantitative measurement of model credibility and model validation and verification The book clearly demonstrates how to construct computationally efficient object oriented simulations of DEVS models on parallel and distributed environments Guides systems and control engineers in the practical creation and delivery of simulation models using DEVS formalism Provides practical methods to improve credibility of models and manage the model lifecycle Helps readers gain an overall understanding of model lifecycle management and analysis Supported by an online ancillary package that includes an instructors and student solutions manual   **40th ACM International Symposium on Theory of Computing** STOC (40, 2008, Victoria, British Columbia),STOC. 40, 2008, Victoria, British Columbia,2008   **Quantitative Methods in Parallel Systems** Francois Baccelli,Alain Jean-Marie,Isi Mitrani,2013-11-11 It is widely recognized that the complexity of parallel and distributed systems is such that proper tools must be employed during their design stage in order to achieve the quantitative goals for which they are intended This volume collects recent research results obtained within the Basic Research Action Qmips which bears on the quantitative analysis of parallel and distributed architectures Part 1 is devoted to research on the usage of general formalisms stemming from theoretical computer science in quantitative performance modeling of parallel systems It contains research papers on process algebras on Petri nets and on queueing networks The contributions in Part 2 are concerned with solution techniques This part is expected to allow the reader to identify among the general formalisms of Part I those that are amenable to an efficient mathematical treatment in the perspective of quantitative information The common theme of Part 3 is the application of the analytical results of Part 2 to the performance evaluation and optimization of parallel and distributed systems Part 1 Stochastic Process Algebras are used by N Gotz H Hermanns U Herzog V Mertsiotakis and M Rettelbach as a novel approach for the struc tured design and analysis of both the functional behaviour and performability i e performance and dependability characteristics of parallel and distributed systems This is achieved by integrating stochastic modeling and analysis into the powerful and well investigated formal description techniques of process algebras

Multi-UAV Planning and Task Allocation Yasmina Bestaoui Sebbane,2020-03-27 Multi robot systems are a major research topic in robotics Designing testing and deploying aerial robots in the real world is a possibility due to recent technological advances This book explores different aspects of cooperation in multiagent systems It covers the team approach as well as deterministic decision making It also presents distributed receding horizon control as well as conflict resolution artificial potentials and symbolic planning The book also covers association with limited communications as well as

genetic algorithms and game theory reasoning Multiagent decision making and algorithms for optimal planning are also covered along with case studies Key features Provides a comprehensive introduction to multi robot systems planning and task allocation Explores multi robot aerial planning flight planning orienteering and coverage and deployment patrolling and foraging Includes real world case studies Treats different aspects of cooperation in multiagent systems Both scientists and practitioners in the field of robotics will find this text valuable **Documentation Abstracts** ,1995 American Doctoral Dissertations ,1990 Dissertation Abstracts International ,2008 *Computer & Control Abstracts* ,1996

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