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Passivity–Based Control and Estimation in Networked Robotics

Passivity Based Control And Estimation In Networked Robotics Communications And Control Engineering

Lifeng Ma,Zidong Wang,Yuming Bo

Passivity Based Control And Estimation In Networked Robotics Communications And Control Engineering:
 Passivity-Based Control and Estimation in Networked Robotics Takeshi Hatanaka,Nikhil Chopra,Masayuki Fujita,Mark W. Spong,2015-04-10 Highlighting the control of networked robotic systems this book synthesizes a unified passivity based approach to an emerging cross disciplinary subject Thanks to this unified approach readers can access various state of the art research fields by studying only the background foundations associated with passivity In addition to the theoretical results and techniques the authors provide experimental case studies on testbeds of robotic systems including networked haptic devices visual robotic systems robotic network systems and visual sensor network systems The text begins with an introduction to passivity and passivity based control together with the other foundations needed in this book The main body of the book consists of three parts The first examines how passivity can be utilized for bilateral teleoperation and demonstrates the inherent robustness of the passivity based controller against communication delays The second part emphasizes passivity s usefulness for visual feedback control and estimation Convergence is rigorously proved even when other passive components are interconnected The passivity approach is also differentiated from other methodologies The third part presents the unified passivity based control design methodology for multi agent systems This scheme is shown to be either immediately applicable or easily extendable to the solution of various motion coordination problems including 3 D attitude pose synchronization flocking control and cooperative motion estimation Academic researchers and practitioners working in systems and control and or robotics will appreciate the potential of the elegant and novel approach to the control of networked robots presented here The limited background required and the case study work described also make the text appropriate for and it is hoped inspiring to students *Network Optimization Methods in Passivity-Based Cooperative Control* Miel Sharf,2021-05-24 This book establishes an important mathematical connection between cooperative control problems and network optimization problems It shows that many cooperative control problems can in fact be understood under certain passivity assumptions using a pair of static network optimization problems Merging notions from passivity theory and network optimization it describes a novel network optimization approach that can be applied to the synthesis of controllers for diffusively coupled networks of passive or passivity short dynamical systems It also introduces a data based model free approach for the synthesis of network controllers for multi agent systems with passivity short agents Further the book describes a method for monitoring link faults in multi agent systems using passivity theory and graph connectivity It reports on some practical case studies describing the effectivity of the developed approaches in vehicle networks All in all this book offers an extensive source of information and novel methods in the emerging field of multi agent cooperative control paving the way to future developments of autonomous systems for various application domains **Dissipative Systems Analysis and Control** Bernard Brogliato,Rogelio Lozano,Bernhard Maschke,Olav Egeland,2019-07-03 The third edition of the now standard Dissipative Systems Analysis and Control presents a revised and expanded treatment of

dissipative systems theory constituting a self contained advanced introduction for graduate students researchers and practising engineers It examines linear nonlinear and nonsmooth systems with many examples in each chapter occasional infinite dimensional examples are also included Throughout emphasis is placed on the use of the dissipative properties of a system for the design of stable and robust feedback control laws or state observers The theory is substantiated by experimental results and by reference to its application in illustrative physical cases Lagrangian systems passivity based and adaptive controllers are covered thoroughly The third edition is substantially updated to accommodate new material within the existing chapter structure The additions include the introduction of negative imaginary transfer functions the design of stable state observers that use passivity as a tool for their stability analysis a new section on robust set valued control of uncertain Lagrangian systems extended section on discrete time systems especially the preservation of dissipativity after discretization a thorough treatment of nonsmooth set valued Lur e systems well posednees and stability an extended chapter on the Kalman Yakubovich Popov Lemma and over 1000 references *Analysis and Design of Networked Control Systems under Attacks* Yuan Yuan,Hongjiu Yang,Lei Guo,Fuchun Sun,2018-09-21 This book adopts a systematic view of the control systems in cyber physical systems including the security control of the optimal control system security control of the non cooperative game system quantify the impact of the Denial of Service attacks on the optimal control system and the adaptive security control of the networked control systems Because the cyber physical system is a hybrid system it adopts cross layer approach to handle the security control of the CPS It presents a number of attack models according to the attack scenario and defense facilities and a number of cross layer co design methodologies to secure the control of CPS *Cooperative Control of Nonlinear Multiagent Systems* Jin-Liang Wang,Shun-Yan Ren,Huai-Ning Wu,Tingwen Huang,2024-11-05 Cooperative Control for Nonlinear Multiagent Systems Passivity Based and Non Passivity Based Approaches focuses on the cooperative control of nonlinear multiagent systems containing passivity based or non passivity based consensus lag consensus and formation control of multiagent systems The book provides professional and convenient guidance for those who want to know basic knowledge advancements and processes for designing and analyzing cooperative control for nonlinear multiagent systems Currently there are a lack of reference titles that systematically introduce students researchers and technologists to the backgrounds developments and designs protocols for cooperative control contains passivity based or not passivity based consensus lag consensus formation control of nonlinear multiagent systems Constructs the frameworks of passivity analysis consensus control lag consensus control and formation control for multiagent systems Helps readers learn novel control methods Includes systematic introductions and detailed implementations on how control protocols solve problems in nonlinear multiagent systems <u>Machine Learning for Robotics Applications</u> Monica Bianchini,Milan Simic,Ankush Ghosh,Rabindra Nath Shaw,2021-04-23 Machine learning has become one of the most prevalent topics in recent years The application of machine learning we see today is a tip of the iceberg The machine learning revolution has just

started to roll out It is becoming an integral part of all modern electronic devices Applications in automation areas like automotive security and surveillance augmented reality smart home retail automation and healthcare are few of them Robotics is also rising to dominate the automated world The future applications of machine learning in the robotics area are still undiscovered to the common readers We are therefore putting an effort to write this edited book on the future applications of machine learning on robotics where several applications have been included in separate chapters The content of the book is technical It has been tried to cover all possible application areas of Robotics using machine learning This book will provide the future vision on the unexplored areas of applications of Robotics using machine learning The ideas to be presented in this book are backed up by original research results The chapter provided here in depth look with all necessary theory and mathematical calculations It will be perfect for laymen and developers as it will combine both advanced and introductory material to form an argument for what machine learning could achieve in the future It will provide a vision on future areas of application and their approach in detail Therefore this book will be immensely beneficial for the academicians researchers and industry project managers to develop their new project and thereby beneficial for mankind Original research and review works with model and build Robotics applications using Machine learning are included as chapters in this book

Nonlinear Control and Filtering for Stochastic Networked Systems Lifeng Ma,Zidong Wang,Yuming Bo,2018-12-07 In this book control and filtering problems for several classes of stochastic networked systems are discussed In each chapter the stability robustness reliability consensus performance and or disturbance attenuation levels are investigated within a unified theoretical framework The aim is to derive the sufficient conditions such that the resulting systems achieve the prescribed design requirements despite all the network induced phenomena Further novel notions such as randomly occurring sensor failures and consensus in probability are discussed Finally the theories techniques developed are applied to emerging research areas Key Features Unifies existing and emerging concepts concerning stochastic control filtering and distributed control filtering with an emphasis on a variety of network induced complexities Includes concepts like randomly occurring sensor failures and consensus in probability with respect to time varying stochastic multi agent systems Exploits the recursive linear matrix inequality approach completing the square method Hamilton Jacobi inequality approach and parameter dependent matrix inequality approach to handle the emerging mathematical computational challenges Captures recent advances of theories techniques and applications of stochastic control as well as filtering from an engineering oriented perspective Gives simulation examples in each chapter to reflect the engineering practice **Engineering Creative Design in Robotics and Mechatronics** Habib, Maki K.,Davim, J. Paulo,2013-06-30 While technologies continue to advance in different directions there still holds a constant evolution of interdisciplinary development Robotics and mechatronics is a successful fusion of disciplines into a unified framework that enhances the design of products and manufacturing processes Engineering Creative Design in Robotics and Mechatronics captures the latest research

developments in the subject field of robotics and mechatronics and provides relevant theoretical knowledge in this field Providing interdisciplinary development approaches this reference source prepares students scientists and professional engineers with the latest research development to enhance their skills of innovative design capabilities **2001 IEEE International Symposium on Computational Intelligence in Robotics and Automation** Hong Zhang,2001 **1994 IEEE Decision & Control** ,1994 **Distributed Autonomous Robotic Systems** Nikolaus Correll,Mac Schwager,Michael Otte,2019-01-29 This volume of the SPAR series brings the proceedings of the fourteen edition of the DARS symposium on Distributed Autonomous Robotic Systems whose proceedings have been published within SPAR since the past edition This symposium took place in Boulder CO from October 15th to 17th 2018 The volume edited by Nikolaus Correll and Mac Schwager contains 36 scientific contributions cutting across planning control design perception networking and optimization all united through the common thread of distributed robotic systems **Cooperative Localization and Navigation** Chao Gao,Guorong Zhao,Hassen Fourati,2019-08-21 This book captures the latest results and techniques for cooperative localization and navigation drawn from a broad array of disciplines It provides the reader with a generic and comprehensive view of modeling strategies and state estimation methodologies in that fields It discusses the most recent research and novel advances in that direction exploring the design of algorithms and architectures benefits and challenging aspects as well as a potential broad array of disciplines including wireless communication indoor localization robotics emergency rescue motion analysis etc Robotics Nicholas Roy,Paul Newman,Siddhartha Srinivasa,2013-07-05 Papers from a flagship conference reflect the latest developments in the field including work in such rapidly advancing areas as human robot interaction and formal methods Robotics Science and Systems VIII spans a wide spectrum of robotics bringing together contributions from researchers working on the mathematical foundations of robotics robotics applications and analysis of robotics systems This volume presents the proceedings of the eighth annual Robotics Science and Systems RSS conference held in July 2012 at the University of Sydney The contributions reflect the exciting diversity of the field presenting the best the newest and the most challenging work on such topics as mechanisms kinematics dynamics and control human robot interaction and human centered systems distributed systems mobile systems and mobility manipulation field robotics medical robotics biological robotics robot perception and estimation and learning in robotic systems The conference and its proceedings reflect not only the tremendous growth of robotics as a discipline but also the desire in the robotics community for a flagship event at which the best of the research in the field can be presented **Duality and Approximation Methods for Cooperative Optimization and Control** Mathias Bürger,2014 This thesis investigates the role of duality and the use of approximation methods in cooperative optimization and control Concerning cooperative optimization a general algorithm for convex optimization in networks with asynchronous communication is presented Based on the idea of polyhedral approximations a family of distributed algorithms is developed to solve a variety of distributed decision problems ranging from semi definite

and robust optimization problems up to distributed model predictive control Optimization theory and in particular duality theory are shown to be central elements also in cooperative control This thesis establishes an intimate relation between passivity based cooperative control and network optimization theory The presented results provide a complete duality theory for passivity based cooperative control and lead the way to novel analysis tools for complex dynamic phenomena In this way this thesis presents theoretical insights and algorithmic approaches for cooperative optimization and control and emphasizes the role of convexity and duality in this field   **Subject Guide to Books in Print** ,1997   **Journal of Guidance, Control, and Dynamics** ,2007   *Government Reports Annual Index* ,1993   **Index to IEEE Publications** Institute of Electrical and Electronics Engineers,1994   *Data-driven Passivity-based Control of Underactuated Robotic Systems* Wankun Sirichotiyakul,2022 Classical control strategies for robotic systems are based on the idea that feedback control can be used to override the natural dynamics of the machines Passivity based control Pbc is a branch of nonlinear control theory that follows a similar approach where the natural dynamics is modified based on the overall energy of the system This method involves transforming a nonlinear control system through a suitable control input into another fictitious system that has desirable stability characteristics The majority of Pbc techniques require the discovery of a reasonable storage function which acts as a Lyapunov function candidate that can be used to certify stability There are several challenges in the design of a suitable storage function including 1 what a reasonable choice for the function is for a given control system and 2 the control synthesis requires a closed form solution to a set of nonlinear partial differential equations The latter is in general difficult to overcome especially for systems with high degrees of freedom limiting the applicability of Pbc techniques A machine learning framework that automatically determines the storage function for underactuated robotic systems is introduced in this dissertation This framework combines the expressive power of neural networks with the systematic methods of the Pbc paradigm bridging the gap between controllers derived from learning algorithms and nonlinear control theory A series of experiments demonstrates the efficacy and applicability of this framework for a family of underactuated robots Boise State University ScholarWorks   Handling Uncertainty and Networked Structure in Robot Control Lucian Bușoniu,Levente Tamás,2016-02-06 This book focuses on two challenges posed in robot control by the increasing adoption of robots in the everyday human environment uncertainty and networked communication Part I of the book describes learning control to address environmental uncertainty Part II discusses state estimation active sensing and complex scenario perception to tackle sensing uncertainty Part III completes the book with control of networked robots and multi robot teams Each chapter features in depth technical coverage and case studies highlighting the applicability of the techniques with real robots or in simulation Platforms include mobile ground aerial and underwater robots as well as humanoid robots and robot arms Source code and experimental data are available at http extras springer com The text gathers contributions from academic and industry experts and offers a valuable resource for researchers or graduate students in robot control and

perception It also benefits researchers in related areas such as computer vision nonlinear and learning control and multi agent systems

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