



LECTURE NOTES IN CONTROL
AND INFORMATION SCIENCES

312

Didier Henrion
Andrea Garulli (Eds.)

Positive Polynomials in Control

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Jean Bernard Lasserre



Positive Polynomials In Control:

Positive Polynomials in Control Didier Henrion, Andrea Garulli, 2009-09-02 Positive Polynomials in Control originates from an invited session presented at the IEEE CDC 2003 and gives a comprehensive overview of existing results in this quickly emerging area This carefully edited book collects important contributions from several fields of control optimization and mathematics in order to show different views and approaches of polynomial positivity The book is organized in three parts reflecting the current trends in the area 1 applications of positive polynomials and LMI optimization to solve various control problems 2 a mathematical overview of different algebraic techniques used to cope with polynomial positivity 3 numerical aspects of positivity of polynomials and recently developed software tools which can be employed to solve the problems discussed in the book

Positive Polynomials in Control Didier Henrion, Andrea Garulli, 2005-01-14 Positive Polynomials in Control originates from an invited session presented at the IEEE CDC 2003 and gives a comprehensive overview of existing results in this quickly emerging area This carefully edited book collects important contributions from several fields of control optimization and mathematics in order to show different views and approaches of polynomial positivity The book is organized in three parts reflecting the current trends in the area 1 applications of positive polynomials and LMI optimization to solve various control problems 2 a mathematical overview of different algebraic techniques used to cope with polynomial positivity 3 numerical aspects of positivity of polynomials and recently developed software tools which can be employed to solve the problems discussed in the book

Homogeneous Polynomial Forms for Robustness Analysis of Uncertain Systems Graziano Chesi, Andrea Garulli, Alberto Tesi, Antonio Vicino, 2009-07-13 This book presents a number of techniques for robustness analysis of uncertain systems In it convex relaxations for several robustness problems are derived by exploiting and providing new results on the theory of homogenous polynomial forms

Optimization of Polynomials in Non-Commuting Variables Sabine Burgdorf, Igor Klep, Janez Povh, 2016-06-07 This book presents recent results on positivity and optimization of polynomials in non commuting variables Researchers in non commutative algebraic geometry control theory system engineering optimization quantum physics and information science will find the unified notation and mixture of algebraic geometry and mathematical programming useful Theoretical results are matched with algorithmic considerations several examples and information on how to use NCSOStools open source package to obtain the results provided Results are presented on detecting the eigenvalue and trace positivity of polynomials in non commuting variables using Newton chip method and Newton cyclic chip method relaxations for constrained and unconstrained optimization problems semidefinite programming formulations of the relaxations and finite convergence of the hierarchies of these relaxations and the practical efficiency of algorithms

Geometric and Numerical Foundations of Movements Jean-Paul Laumond, Nicolas Mansard, Jean-Bernard Lasserre, 2017-05-02 This book aims at gathering roboticists control theorists neuroscientists and mathematicians in order to promote a multidisciplinary research on movement analysis It follows the workshop Geometric

and Numerical Foundations of Movements held at LAAS CNRS in Toulouse in November 2015 1 Its objective is to lay the foundations for a mutual understanding that is essential for synergetic development in motion research In particular the book promotes applications to robotics and control in general of new optimization techniques based on recent results from real algebraic geometry

Sum of Squares: Theory and Applications Pablo A. Parrilo, Rekha R. Thomas, 2020 This volume is based on lectures delivered at the 2019 AMS Short Course Sum of Squares Theory and Applications held January 14-15 2019 in Baltimore Maryland This book provides a concise state of the art overview of the theory and applications of polynomials that are sums of squares This is an exciting and timely topic with rich connections to many areas of mathematics including polynomial and semidefinite optimization real and convex algebraic geometry and theoretical computer science The six chapters introduce and survey recent developments in this area specific topics include the algebraic and geometric aspects of sums of squares and spectrahedra lifted representations of convex sets and the algorithmic and computational implications of viewing sums of squares as a meta algorithm The book also showcases practical applications of the techniques across a variety of areas including control theory statistics finance and machine learning

Switched and Impulsive Systems Zhengguo Li, Yengchai Soh, Changyun Wen, 2005-02-16 In this volume the important concept of switched and impulsive control is discussed with a wide field of applications in the analysis and control of complex systems This monograph provides the reader with a comprehensive coverage of switched and impulsive systems including new original work with various applications such as switched server systems scalable video coding systems chaotic based secure communication or quality of service on the internet Switched and Impulsive Systems can be used as a reference or a text for a course at graduate level

Emerging Applications of Algebraic Geometry Mihai Putinar, Seth Sullivant, 2008-12-10 Recent advances in both the theory and implementation of computational algebraic geometry have led to new striking applications to a variety of fields of research The articles in this volume highlight a range of these applications and provide introductory material for topics covered in the IMA workshops on Optimization and Control and Applications in Biology Dynamics and Statistics held during the IMA year on Applications of Algebraic Geometry The articles related to optimization and control focus on burgeoning use of semidefinite programming and moment matrix techniques in computational real algebraic geometry The new direction towards a systematic study of non commutative real algebraic geometry is well represented in the volume Other articles provide an overview of the way computational algebra is useful for analysis of contingency tables reconstruction of phylogenetic trees and in systems biology The contributions collected in this volume are accessible to non experts self contained and informative they quickly move towards cutting edge research in these areas and provide a wealth of open problems for future research

Handbook on Semidefinite, Conic and Polynomial Optimization Miguel F. Anjos, Jean B. Lasserre, 2011-11-19 Semidefinite and conic optimization is a major and thriving research area within the optimization community Although semidefinite optimization has been studied under different names since at least the 1940s its

importance grew immensely during the 1990s after polynomial time interior point methods for linear optimization were extended to solve semidefinite optimization problems Since the beginning of the 21st century not only has research into semidefinite and conic optimization continued unabated but also a fruitful interaction has developed with algebraic geometry through the close connections between semidefinite matrices and polynomial optimization This has brought about important new results and led to an even higher level of research activity This Handbook on Semidefinite Conic and Polynomial Optimization provides the reader with a snapshot of the state of the art in the growing and mutually enriching areas of semidefinite optimization conic optimization and polynomial optimization It contains a compendium of the recent research activity that has taken place in these thrilling areas and will appeal to doctoral students young graduates and experienced researchers alike The Handbook's thirty one chapters are organized into four parts Theory covering significant theoretical developments as well as the interactions between conic optimization and polynomial optimization Algorithms documenting the directions of current algorithmic development Software providing an overview of the state of the art Applications dealing with the application areas where semidefinite and conic optimization has made a significant impact in recent years

Optimization Based Clearance of Flight Control Laws Andreas Varga, Anders Hansson, Guilhem Puyou, 2011-09-28 This book summarizes the main achievements of the EC funded 6th Framework Program project COFCLUO Clearance of Flight Control Laws Using Optimization This project successfully contributed to the achievement of a top level objective to meet society's needs for a more efficient safer and environmentally friendly air transport by providing new techniques and tools for the clearance of flight control laws This is an important part of the certification and qualification process of an aircraft a costly and time consuming process for the aeronautical industry The overall objective of the COFCLUO project was to develop and apply optimization techniques to the clearance of flight control laws in order to improve efficiency and reliability In the book the new techniques are explained and benchmarked against traditional techniques currently used by the industry The new techniques build on mathematical criteria derived from the certification and qualification requirements together with suitable models of the aircraft The development of these criteria and models are also presented in the book Because of wider applicability the optimization based clearance of flight control laws will open up the possibility to design innovative aircraft that today are out of the scope using classical clearance tools Optimization based clearance will not only increase safety but it will also simplify the whole certification and qualification process thus significantly reduce cost The achieved speedup will also support rapid modeling and prototyping and reduce time to market

An Introduction to Polynomial and Semi-Algebraic Optimization Jean Bernard Lasserre, 2015-02-19 This is the first comprehensive introduction to the powerful moment approach for solving global optimization problems and some related problems described by polynomials and even semi algebraic functions In particular the author explains how to use relatively recent results from real algebraic geometry to provide a systematic numerical scheme for computing the optimal value and global minimizers

Indeed among other things powerful positivity certificates from real algebraic geometry allow one to define an appropriate hierarchy of semidefinite SOS relaxations or LP relaxations whose optimal values converge to the global minimum Several extensions to related optimization problems are also described Graduate students engineers and researchers entering the field can use this book to understand experiment with and master this new approach through the simple worked examples provided

Mathematical Software - ICMS 2006 Andres Iglesias,Nobuki Takayama,2006-08-24 This book constitutes the refereed proceedings of the Second International Congress on Mathematical Software ICMS 2006 The book presents 45 revised full papers carefully reviewed and selected for presentation The papers are organized in topical sections on new developments in computer algebra packages interfacing computer algebra in mathematical visualization software for algebraic geometry and related topics number theoretical software methods in computational number theory free software for computer algebra and general issues

Modal Array Signal Processing: Principles and Applications of Acoustic Wavefield Decomposition Heinz Teutsch,2007-01-10 This book deals with the problem of detecting and localizing multiple simultaneously active wideband acoustic sources by applying the notion of wavefield decomposition using circular and spherical microphone arrays A rigorous derivation of modal array signal processing algorithms for unambiguous source detection and localization as well as performance evaluations by means of measurements using an actual real time capable implementation are discussed

Moment and Polynomial Optimization Jiawang Nie,2023-06-15 Moment and polynomial optimization is an active research field used to solve difficult questions in many areas including global optimization tensor computation saddle points Nash equilibrium and bilevel programs and it has many applications The author synthesizes current research and applications providing a systematic introduction to theory and methods a comprehensive approach for extracting optimizers and solving truncated moment problems and a creative methodology for using optimality conditions to construct tight Moment SOS relaxations This book is intended for applied mathematicians engineers and researchers entering the field It can be used as a textbook for graduate students in courses on convex optimization polynomial optimization and matrix and tensor optimization

Optimal Linear Controller Design for Periodic Inputs Goele Pipeleers,Bram Demeulenaere,Jan Swevers,2009-12-07 Optimal Linear Controller Design for Periodic Inputs proposes a general design methodology for linear controllers facing periodic inputs which applies to all feedforward control estimated disturbance feedback control repetitive control and feedback control The design methodology proposed is able to reproduce and outperform the major current design approaches where this superior performance stems from the following properties uncertainty on the input period is explicitly accounted for periodic performance being traded off against conflicting design objectives and controller design being translated into a convex optimization problem guaranteeing the efficient computation of its global optimum The potential of the design methodology is illustrated by both numerical and experimental results

Realization Theory and Design of Digital Images Yasumichi Hasegawa,Tatsuo Suzuki,2006-10-20 This monograph

offers a thorough examination of the description and design of digital images Regarding digital images as special input output relations in the authors previous book in the series Lecture Notes in Control and Information Sciences the description problem of digital images is transformed into the realization problem of digital images This book is intended for researchers and graduate students who specialize in image processing and system theory

Advances in Computational Intelligence Systems Zhaojie Ju, Longzhi Yang, Chenguang Yang, Alexander Gegov, Dalin Zhou, 2019-08-29 This book highlights the latest research in computational intelligence and its applications It covers both conventional and trending approaches in individual chapters on Fuzzy Systems Intelligence in Robotics Deep Learning Approaches Optimization and Classification Detection Inference and Prediction Hybrid Methods Emerging Intelligence Intelligent Health Care and Engineering Data and Model Driven Applications All chapters are based on peer reviewed contributions presented at the 19th Annual UK Workshop on Computational Intelligence held in Portsmouth UK on 4-6 September 2019 The book offers a valuable reference guide for readers with expertise in computational intelligence or who are seeking a comprehensive and timely review of the latest trends in computational intelligence Special emphasis is placed on novel methods and their use in a wide range of application areas updating both academics and professionals on the state of the art

Sound Capture for Human / Machine Interfaces Wolfgang Herbordt, 2005-03-22 With a continuously increasing desire for natural and comfortable human machine interaction the acoustic interface of any terminal for multimedia or telecommunication services is challenged to allow seamless and hands free audio communication Sound Capture for Human Machine Interfaces introduces the practical aspects of microphone array signal processing and presents various combinations of beamforming and acoustic echo cancellation

Hybrid Estimation of Complex Systems Michael W. Hofbaur, 2005-06-09 This monograph provides a tool set for hybrid estimation that can successfully monitor the behavior of complex artifacts with a large number of possible operational and failure modes such as production plants automotive or aeronautic systems and autonomous robots For this purpose ideas from the fields of System Theory and Artificial Intelligence are taken and hybrid estimation is reformulated as a search problem This allows to focus the estimation onto highly probably operational modes without missing symptoms that might be hidden among the noise in the system Additionally a novel approach to continue hybrid estimation in the presence of unknown behavioral modes and to automate system analysis and synthesis tasks for on line operation are presented This leads to a flexible model based hybrid estimation scheme for complex artifacts that robustly copes with unforeseen situations

Algebraic and Geometric Methods in Discrete Mathematics Heather A. Harrington, Mohamed Omar, Matthew Wright, 2017-03-16 This volume contains the proceedings of the AMS Special Session on Algebraic and Geometric Methods in Applied Discrete Mathematics held on January 11 2015 in San Antonio Texas The papers present connections between techniques from pure mathematics and various applications amenable to the analysis of discrete models encompassing applications of combinatorics topology algebra geometry optimization and representation theory Papers not only present

novel results but also survey the current state of knowledge of important topics in applied discrete mathematics. Particular highlights include a new computational framework based on geometric combinatorics for structure prediction from RNA sequences, a new method for approximating the optimal solution of a sum of squares problem, a survey of recent Helly type geometric theorems, applications of representation theory to voting theory and game theory, a study of fixed points of tensors, and exponential random graph models from the perspective of algebraic statistics with applications to networks. This volume was written for those trained in areas such as algebra, topology, geometry, and combinatorics who are interested in tackling problems in fields such as biology, the social sciences, data analysis, and optimization. It may be useful not only for experts but also for students who wish to gain an applied or interdisciplinary perspective.

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Table of Contents Positive Polynomials In Control

1. Understanding the eBook Positive Polynomials In Control
 - The Rise of Digital Reading Positive Polynomials In Control
 - Advantages of eBooks Over Traditional Books
2. Identifying Positive Polynomials In Control
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Positive Polynomials In Control
 - User-Friendly Interface
4. Exploring eBook Recommendations from Positive Polynomials In Control
 - Personalized Recommendations
 - Positive Polynomials In Control User Reviews and Ratings
 - Positive Polynomials In Control and Bestseller Lists

5. Accessing Positive Polynomials In Control Free and Paid eBooks
 - Positive Polynomials In Control Public Domain eBooks
 - Positive Polynomials In Control eBook Subscription Services
 - Positive Polynomials In Control Budget-Friendly Options
6. Navigating Positive Polynomials In Control eBook Formats
 - ePub, PDF, MOBI, and More
 - Positive Polynomials In Control Compatibility with Devices
 - Positive Polynomials In Control Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Positive Polynomials In Control
 - Highlighting and Note-Taking Positive Polynomials In Control
 - Interactive Elements Positive Polynomials In Control
8. Staying Engaged with Positive Polynomials In Control
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Positive Polynomials In Control
9. Balancing eBooks and Physical Books Positive Polynomials In Control
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Positive Polynomials In Control
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Positive Polynomials In Control
 - Setting Reading Goals Positive Polynomials In Control
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Positive Polynomials In Control
 - Fact-Checking eBook Content of Positive Polynomials In Control
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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