volume 108

*lecture notes in pure and applied mathematics*

# operator methods for optimal control problems

Edited by
Sung J. Lee

# Operator Methods For Optimal Control Problems

**N.A. Bobylov,S.V. Emel'yanov,S. Korovin**

**Operator Methods For Optimal Control Problems:**

**Operator Methods for Optimal Control Problems** Whei-Mei Lee,1987-08-31 **Operator Methods for Optimal Control Problems** Whei-Mei Lee,1987-08-31 **Optimization Methods and Applications** Xiao-qi Yang,Kok Lay Teo,Lou Caccetta,2013-03-14 This edited book is dedicated to Professor N U Ahmed a leading scholar and a renowned researcher in optimal control and optimization on the occasion of his retirement from the Department of Electrical Engineering at University of Ottawa in 1999 The contributions of this volume are in the areas of optimal control non linear optimization and optimization applications They are mainly the im proved and expanded versions of the papers selected from those presented in two special sessions of two international conferences The first special session is Optimization Methods which was organized by K L Teo and X Q Yang for the International Conference on Optimization and Variational Inequality the City University of Hong Kong Hong Kong 1998 The other one is Optimal Control which was organized byK Teo and L Caccetta for the Dynamic Control Congress Ottawa 1999 This volume is divided into three parts Optimal Control Optimization Methods and Applications The Optimal Control part is concerned with com putational methods modeling and nonlinear systems Three computational methods for solving optimal control problems are presented i a regularization method for computing ill conditioned optimal control problems ii penalty function methods that appropriately handle final state equality constraints and iii a multilevel optimization approach for the numerical solution of opti mal control problems In the fourth paper the worst case optimal regulation involving linear time varying systems is formulated as a minimax optimal con trol problem

**Some Successive Approximation Methods in Control and Oscillation Theory by Peter L Falb and Jan L de Jong** ,1969 In this book we study theoretical and practical aspects of computing methods for mathematical modelling of nonlinear systems A number of computing techniques are considered such as methods of operator approximation with any given accuracy operator interpolation techniques including a non Lagrange interpolation methods of system representation subject to constraints associated with concepts of causality memory and stationarity methods of system representation with an accuracy that is the best within a given class of models methods of covariance matrix estimation methods for low rank matrix approximations hybrid methods based on a combination of iterative procedures and best operator approximation andmethods for information compression and filtering under condition that a filter model should satisfy restrictions associated with causality and different types of memory As a result the book represents a blend of new methods in general computational analysis and specific but also generic techniques for study of systems theory ant its particularbranches such as optimal filtering and information compression Best operator approximation Non Lagrange interpolation Generic Karhunen Loeve transform Generalised low rank matrix approximation Optimal data compression Optimal nonlinear filtering **Splitting Algorithms, Modern Operator Theory, and Applications** Heinz H. Bauschke,Regina S. Burachik,D. Russell Luke,2019-11-06 This book brings together research articles and state of the art surveys in broad areas of optimization and

numerical analysis with particular emphasis on algorithms The discussion also focuses on advances in monotone operator theory and other topics from variational analysis and nonsmooth optimization especially as they pertain to algorithms and concrete implementable methods The theory of monotone operators is a central framework for understanding and analyzing splitting algorithms Topics discussed in the volume were presented at the interdisciplinary workshop titled Splitting Algorithms Modern Operator Theory and Applications held in Oaxaca Mexico in September 2017 Dedicated to Jonathan M Borwein one of the most versatile mathematicians in contemporary history this compilation brings theory together with applications in novel and insightful ways **Operator Approach to Linear Control Systems** A. Cheremensky,V.N. Fomin,2013-11-11 The idea of optimization runs through most parts of control theory The simplest optimal controls are preplanned programmed ones The problem of constructing optimal preplanned controls has been extensively worked out in literature see e g the Pontrjagin maximum principle giving necessary conditions of preplanned control optimality However the concept of op timality itself has a restrictive character it is limited by what one means under optimality in each separate case The internal contradictoriness of the preplanned control optimality the better is the enemy of the good yields that the practical significance of optimal preplanned controls proves to be not great such controls are usually sensitive to unregistered disturbances includ ing the round off errors which are inevitable when computer devices are used for forming controls as there is the effect of disturbance accumulation in the control process which makes controls to be of little use on large time inter vals This gap is mainly provoked by oversimplified settings of optimization problems The outstanding result of control theory established in the end of the first half of our century is that controls in feedback form ensure the weak sensitivity of closed loop systems with respect to small unregistered internal and external disturbances acting in them here we do not need to discuss performance indexes since the considered phenomenon is of general nature But by far not all optimal preplanned controls can be represented in a feedback form **Semigroups of Operators -Theory and Applications** Jacek Banasiak,Adam Bobrowski,Mirosław Lachowicz,2014-11-20 Many results both from semi group theory itself and from the applied sciences are phrased in discipline specific languages and hence are hardly known to a broader community This volume contains a selection of lectures presented at a conference that was organised as a forum for all mathematicians using semi group theory to learn what is happening outside their own field of research The collection will help to establish a number of new links between various sub disciplines of semigroup theory stochastic processes differential equations and the applied fields The theory of semigroups of operators is a well developed branch of functional analysis Its foundations were laid at the beginning of the 20th century while the fundamental generation theorem of Hille and Yosida dates back to the forties The theory was from the very beginning designed as a universal language for partial differential equations and stochastic processes but at the same time it started to live as an independent branch of operator theory Nowadays it still has the same distinctive flavour it develops rapidly by posing new internal questions and in answering them

discovering new methods that can be used in applications On the other hand it is influenced by questions from PDEs and stochastic processes as well as from applied sciences such as mathematical biology and optimal control and thus it continually gathers a new momentum Researchers and postgraduate students working in operator theory partial differential equations probability and stochastic processes analytical methods in biology and other natural sciences optimization and optimal control will find this volume useful **Computational Intelligence for Modelling, Control & Automation** Masoud Mohammadian,1999 This edited Book is dedicated to the theory and applications of Evolutionary Computation and Fuzzy Logic for Intelligent Control Knowledge Acquisition and Information Retrieval The book consists of 86 selected research papers from the 1999 International Conference on Computational Intelligence for Modelling Control and Automation CIMCA 99 The research papers presented in this book cover new techniques and applications in the following research areas Evolutionary Computation Fuzzy Logic and Expert Systems with their applications for Optimisation Learning Control Scheduling and Multi Criteria Analysis as well as Reliability Assessment Information Retrieval and Knowledge Acquisition

**Theory and Applications of Nonlinear Operators of Accretive and Monotone Type** Athanass Kartsatos,1996-03-14 This work is based upon a Special Session on the Theory and Applications of Nonlinear Operators of Accretive and Monotone Type held during the recent meeting of the American Mathematical Society in San Francisco It examines current developments in non linear analysis emphasizing accretive and monotone operator theory The book presents a major survey research article on partial functional differential equations with delay and an important survey research article on approximation solvability **The Koopman Operator in Systems and Control** Alexandre Mauroy,Igor Mezić,Yoshihiko Susuki,2020-02-22 This book provides a broad overview of state of the art research at the intersection of the Koopman operator theory and control theory It also reviews novel theoretical results obtained and efficient numerical methods developed within the framework of Koopman operator theory The contributions discuss the latest findings and techniques in several areas of control theory including model predictive control optimal control observer design systems identification and structural analysis of controlled systems addressing both theoretical and numerical aspects and presenting open research directions as well as detailed numerical schemes and data driven methods Each contribution addresses a specific problem After a brief introduction of the Koopman operator framework including basic notions and definitions the book explores numerical methods such as the dynamic mode decomposition DMD algorithm and Arnoldi based methods which are used to represent the operator in a finite dimensional basis and to compute its spectral properties from data The main body of the book is divided into three parts theoretical results and numerical techniques for observer design synthesis analysis stability analysis parameter estimation and identification data driven techniques based on DMD which extract the spectral properties of the Koopman operator from data for the structural analysis of controlled systems and Koopman operator techniques with specific applications in systems and control which range from heat transfer analysis to robot control A useful reference

resource on the Koopman operator theory for control theorists and practitioners the book is also of interest to graduate students researchers and engineers looking for an introduction to a novel and comprehensive approach to systems and control from pure theory to data driven methods     Encyclopedia of Optimization Christodoulos A. Floudas,Panos M. Pardalos,2008-09-04 The goal of the Encyclopedia of Optimization is to introduce the reader to a complete set of topics that show the spectrum of research the richness of ideas and the breadth of applications that has come from this field The second edition builds on the success of the former edition with more than 150 completely new entries designed to ensure that the reference addresses recent areas where optimization theories and techniques have advanced Particularly heavy attention resulted in health science and transportation with entries such as Algorithms for Genomics Optimization and Radiotherapy Treatment Design and Crew Scheduling     Optimization, Simulation and Control Rentsen Enkhbat,Altannar Chinchuluun,Panos M. Pardalos,2023-10-30 This volume gathers selected peer reviewed works presented at the 7th International Conference on Optimization Simulation and Control ICOSC 2022 held at the National University of Mongolia Ulaanbaatar June 20 22 2022 Topics covered include but are not limited to mathematical programming network global linear nonlinear parametric stochastic and multi objective optimization control theory biomathematics and deep and machine learning to name a few Held every three years since 2002 the ICOSC conference has become a traditional gathering for experienced and young researchers in optimization and control to share recent findings in these fields and discuss novel applications in myriad sectors Researchers and graduate students in the fields of mathematics engineering and computer science can greatly benefit from this book which can also be enjoyed by advanced practitioners in research laboratories and the industry The 2022 edition of the ICOSC conference was sponsored by the Mongolian Academy of Sciences the National University of Mongolia and the German Mongolian Institute for Resources and Technology     Nonlinear Analysis and Control of Physical Processes and Fields Mikhail Z. Zgurovsky,Valery S. Melnik,2012-12-06 Modern achievements in the intensively developing field of applied mathematics are presented in this monograph In particular it proposes a new approach to extremal problem theory for nonlinear operators differential operator equations and inclusions and for variational inequalities in Banach spaces An axiomatic study of nonlinear maps including multi valued ones is given and the properties of resolving operators for systems consisting of operator and differential operator equations are stated in nonlinear map terms The solvability conditions and the properties of extremal problem solutions are obtained while their weak expansions and necessary conditions of optimality in variational inequality form are formulated In addition the monograph proposes regularization methods and approximation schemes This book is adressed to scientists graduates and undergraduates who are interested in nonlinear analysis control theory system analysis and differential equations     **Applied Mechanics Reviews** ,1973     **Scientific and Technical Aerospace Reports** ,1986     **Laser Techniques for State-selected and State-to-state Chemistry** ,1994     **Approximation Methods in Optimization of Nonlinear Systems** Peter I.

Kogut,Olga P. Kupenko,2019-12-02 The monograph addresses some problems particularly with regard to ill posedness of boundary value problems and problems where we cannot expect to have uniqueness of their solutions in the standard functional spaces Bringing original and previous results together it tackles computational challenges by exploiting methods of approximation and asymptotic analysis and harnessing differences between optimal control problems and their underlying PDEs **Max-Plus Methods for Nonlinear Control and Estimation** William M. McEneaney,2006-07-25 The central focus of this book is the control of continuous time continuous space nonlinear systems Using new techniques that employ the max plus algebra the author addresses several classes of nonlinear control problems including nonlinear optimal control problems and nonlinear robust H infinity control and estimation problems Several numerical techniques are employed including a max plus eigenvector approach and an approach that avoids the curse of dimensionality The max plus based methods examined in this work belong to an entirely new class of numerical methods for the solution of nonlinear control problems and their associated Hamilton Jacobi Bellman HJB PDEs these methods are not equivalent to either of the more commonly used finite element or characteristic approaches Max Plus Methods for Nonlinear Control and Estimation will be of interest to applied mathematicians engineers and graduate students interested in the control of nonlinear systems through the implementation of recently developed numerical methods **Theory of Nonlinear Operators** Reinhard Kluge,Wolfdietrich Müller,1977-12-31 No detailed description available for Theory of Nonlinear Operators **Geometrical Methods in Variational Problems** N.A. Bobylov,S.V. Emel'yanov,S. Korovin,2012-12-06 This self contained monograph presents methods for the investigation of nonlinear variational problems These methods are based on geometric and topological ideas such as topological index degree of a mapping Morse Conley index Euler characteristics deformation invariant homotopic invariant and the Lusternik Shnirelman category Attention is also given to applications in optimisation mathematical physics control and numerical methods Audience This volume will be of interest to specialists in functional analysis and its applications and can also be recommended as a text for graduate and postgraduate level courses in these fields

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