

Approximation Operators in Optimization Theory

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Abstract: Recently, new types of tangential cones such as the radial tangent cone, the hypertangent cone, the Clarke's tangent cone, and the set of directions in which a set is epi-Lipschitzian at a point have been introduced by Clarke, Hiriart-Urruty, and Rockafellar. It turns out that in contrast to the classical tangential cones these new approximations are not necessarily isotone with respect to set inclusion.

The present paper is concerned with modifications of the above-mentioned concepts that lead to isotone approximation. A concept of an approximation operator is introduced and a general scheme for construction of isotone approximations in real affine spaces is presented along with a survey of isotone approximations employed in optimization.

Zusammenfassung: Kürzlich wurden neuartige Tangentialkegel von Clarke, Hiriart-Urruty und Rockafellar eingeführt. Es erweist sich, daß diese neuen Approximationen, im Gegensatz zu den klassischen Tangentialkegeln, nicht notwendig isoton bezüglich Inklusion sind. Die vorliegende Arbeit gefaßt sich mit Modifikationen dieser Begriffe, die zu isotonen Approximationen führen. Der Begriff eines Approximationsoperators wird eingeführt, und es wird ein allgemeines Schema zur Erzeugung isotoner Approximationen in reellen affinen Räumen vorgestellt. Die Verwendung isotoner Approximationen in der Optimierung wird zusammenfassend dargestellt.

1. Introduction

There is no need to emphasize that various approximations to sets in affine and linear spaces have a natural role in the theory of optimization. In numerous papers various approximations to a set at a point have been described in different spaces and employed for establishing conditions of optimality.

Perhaps the simplest, yet most useful, approximation to a set in a real affine space is defined by the following cone: Let X be a real affine space, and let L be the associated linear space. For $x \in X$ and $S \subset X$ define

$$K(x, S) := \{u \in L \mid \exists \epsilon > 0 \quad \forall 0 < \alpha < \epsilon : x + \alpha u \in S\}.$$

The set $K(x, S)$ is known as the cone of feasible directions, admissible directions,

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Approximation Theory and Optimization M. D. Buhmann, A. Iserles, 1997-11-13 Michael Powell is one of the world's foremost figures in numerical analysis. This volume, first published in 1997, is derived from invited talks given at a meeting celebrating his 60th birthday and reflecting Powell's own achievements. It focuses on innovative work in optimisation and in approximation theory. The individual papers have been written by leading authorities in their subjects and are a mix of expository articles and surveys. They have all been reviewed and edited to form a coherent volume for this important discipline within mathematics with highly relevant applications throughout science and engineering.

Exploring Mathematical Analysis, Approximation Theory, and Optimization Nicholas J. Daras, Michael Th. Rassias, Nikolaos B. Zographopoulos, 2024-01-04 This book compiles research and surveys devoted to the areas of mathematical analysis, approximation theory, and optimization. Being dedicated to A. M. Legendre's work, contributions to this volume are devoted to those branches of mathematics and its applications that have been influenced directly or indirectly by the mathematician. Additional contributions provide a historical background as it relates to Legendre's work and its association to the foundation of Greece's higher education. Topics covered in this book include the investigation of the Jensen-Steffensen inequality, Ostrowski and trapezoid type inequalities, a Hilbert Type Inequality, Hardy's inequality, dynamic unilateral contact problems, square-free values of a category of integers, a maximum principle for general nonlinear operators, the application of Ergodic Theory to an alternating series expansion for real numbers, bounds for similarity condition numbers of unbounded operators, finite element methods with higher order polynomials, generating functions for the Fubini type polynomials, local asymptotics for orthonormal polynomials, trends in geometric function theory, quasi-variational inclusions, Kleene fixed point theorems, ergodic states, spontaneous symmetry breaking, and quasi-averages. It is hoped that this book will be of interest to a wide spectrum of readers from several areas of pure and applied sciences and will be useful to undergraduate students, graduate level students, and researchers who want to be kept up to date on the results and theories in the subjects covered in this volume.

Nonlinear Analysis Qamrul Hasan Ansari, 2014-06-05 Many of our daily life problems can be written in the form of an optimization problem. Therefore, solution methods are needed to solve such problems. Due to the complexity of the problems, it is not always easy to find the exact solution. However, approximate solutions can be found. The theory of the best approximation is applicable in a variety of problems arising in nonlinear functional analysis and optimization. This book highlights interesting aspects of nonlinear analysis and optimization together with many applications in the areas of physical and social sciences, including engineering. It is immensely helpful for young graduates and researchers who are pursuing research in this field, as it provides abundant research resources for researchers and post-doctoral fellows. This will be a valuable addition to the library of anyone who works in the field of applied mathematics, economics, and engineering.

Mathematical Analysis, Approximation Theory and Their Applications Themistocles M. Rassias, Vijay Gupta, 2016-06-03

Designed for graduate students researchers and engineers in mathematics optimization and economics this self contained volume presents theory methods and applications in mathematical analysis and approximation theory Specific topics include approximation of functions by linear positive operators with applications to computer aided geometric design numerical analysis optimization theory and solutions of differential equations Recent and significant developments in approximation theory special functions and q calculus along with their applications to mathematics engineering and social sciences are discussed and analyzed Each chapter enriches the understanding of current research problems and theories in pure and applied research

Approximation, Optimization and Mathematical Economics Marc Lassonde, 2001-01-26 The articles in this proceedings volume reflect the current trends in the theory of approximation optimization and mathematical economics and include numerous applications The book will be of interest to researchers and graduate students involved in functional analysis approximation theory mathematical programming and optimization game theory mathematical finance and economics

Analysis, Approximation, Optimization: Computation and Applications Marija P. Stanić, Miloljub Albijanić, Dragan Djurčić, Miodrag M. Spalević, 2025-07-14 This contributed volume is dedicated to Academician Gradimir V Milovanovi on his 75th birthday and contains recent results in the fields of approximation theory numerical analysis mathematical analysis optimization theory and various applications of an interdisciplinary character Most of these results were presented in person during an International Conference Analysis Approximations and Applications AAA2023 organized by the Faculty of Science University of Kragujevac in Vrnja ka Banja Serbia June 21 24 2023 This book is intended for researchers and students of mathematics and other computational and applied sciences This book provides surveys of state of the art results in the fields of Extremal Problems Optimization and Calculus of Variations Orthogonal Systems and Quadrature Formulas Differential and Integral Equations Integral Transforms and Operation Calculus Analytic Number Theory and Special Functions Real and Complex Functions Sequences Series Approximations and Expansions Functional Analysis Operator Theory Fixed Point Theory and Iterative Processes as well as in Miscellaneous Applications

Exploring Mathematical Analysis, Approximation Theory, and Optimization Nicholas J. Daras, Michael Th Rassias, Nikolaos B. Zographopoulos, 2023 This book compiles research and surveys devoted to the areas of mathematical analysis approximation theory and optimization Being dedicated to A M Legendre s work contributions to this volume are devoted to those branches of mathematics and its applications that have been influenced directly or indirectly by the mathematician Additional contributions provide a historical background as it relates to Legendre s work and its association to the foundation of Greece s higher education Topics covered in this book include the investigation of the Jensen Steffensen inequality Ostrowski and trapezoid type inequalities a Hilbert Type Inequality Hardy s inequality dynamic unilateral contact problems square free values of a category of integers a maximum principle for general nonlinear operators the application of Ergodic Theory to an alternating series expansion for real numbers bounds for similarity condition numbers of unbounded operators finite element

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Progress in Approximation Theory and Applicable Complex Analysis Narendra Kumar Govil, Ram Mohapatra, Mohammed A. Qazi, Gerhard Schmeisser, 2017-04-03 Current and historical research methods in approximation theory are presented in this book beginning with the 1800s and following the evolution of approximation theory via the refinement and extension of classical methods and ending with recent techniques and methodologies Graduate students postdocs and researchers in mathematics specifically those working in the theory of functions approximation theory geometric function theory and optimization will find new insights as well as a guide to advanced topics The chapters in this book are grouped into four themes the first polynomials Chapters 1-8 includes inequalities for polynomials and rational functions orthogonal polynomials and location of zeros The second inequalities and extremal problems are discussed in Chapters 9-13 The third approximation of functions involves the approximants being polynomials rational functions and other types of functions and are covered in Chapters 14-19 The last theme quadrature cubature and applications comprises the final three chapters and includes an article coauthored by Rahman This volume serves as a memorial volume to commemorate the distinguished career of Qazi Ibadur Rahman 1934-2013 of the Universit de Montr al Rahman was considered by his peers as one of the prominent experts in analytic theory of polynomials and entire functions The novelty of his work lies in his profound abilities and skills in applying techniques from other areas of mathematics such as optimization theory and variational principles to obtain final answers to countless open problems

Approximation, Optimization, and Computing Alan Greenwell Law, Chung-lie Wang, 1990 This volume consists of 101 papers in the areas of approximation optimization and computing and applications Under the sponsorship of IMACS The International Association for Mathematics and Computers in Simulation it represents a collaborative venture initiated in 1986 between the Dalian University of Technology and the University of Regina A primary goal of the project was to encourage research papers reflecting emerging directions within theory and applications Covered are the following analytic or discrete approximations optimization applications deterministic or stochastic processes programming and applications of theory or techniques in engineering or other sciences

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A Course on Optimization and Best Approximation R. B. Holmes,2006-11-15

Approximation Theory and Analytic Inequalities Themistocles M. Rassias,2021-07-21 This contributed volume focuses on various important areas of mathematics in which approximation methods play an essential role It features cutting edge research on a wide spectrum of analytic inequalities with emphasis on differential and integral inequalities in the spirit of functional analysis operator theory nonlinear analysis variational calculus featuring a plethora of applications making this work a valuable resource The reader will be exposed to convexity theory polynomial inequalities extremal problems prediction theory fixed point theory for operators PDEs fractional integral inequalities multidimensional numerical integration Gauss Jacobi and Hermite Hadamard type inequalities Hilbert type inequalities and Ulam s stability of functional equations Contributions have been written by eminent researchers providing up to date information and several results which may be useful to a wide readership including graduate students and researchers working in mathematics physics economics operational research and their interconnections

Approximation and Optimization Juan A. Gomez-Fernandez,Francisco Guerra-Vazquez,Miguel A. Jimenez-Pozo,Guillermo

Lopez-Lagomasino,2006-11-14 **Duality for Nonconvex Approximation and Optimization** Ivan Singer,2007-03-12 The theory of convex optimization has been constantly developing over the past 30 years Most recently many researchers have been studying more complicated classes of problems that still can be studied by means of convex analysis so called anticonvex and convex anticonvex optimization problems This manuscript contains an exhaustive presentation of the duality for these classes of problems and some of its generalization in the framework of abstract convexity This manuscript will be of great interest for experts in this and related fields Linear Optimization and Approximation K. Glashoff,S.-A. Gustafson,2012-12-06 A linear optimization problem is the task of minimizing a linear real valued function of finitely many variables subject to linear constraints in general there may be infinitely many constraints This book is devoted to such problems Their mathematical properties are investigated and algorithms for their computational solution are presented Applications are discussed in detail Linear optimization problems are encountered in many areas of applications They have therefore been subject to mathematical analysis for a long time We mention here only two classical topics from this area the so called uniform approximation of functions which was used as a mathematical tool by Chebyshev in 1853 when he set out to design a crane and the theory of systems of linear inequalities which has already been studied by Fourier in 1823 We will not treat the historical development of the theory of linear optimization in detail However we point out that the decisive break through occurred in the middle of this century It was urged on by the need to solve complicated decision problems where the optimal deployment of military and civilian resources had to be determined The availability of electronic computers also played an important role The principal computational scheme for the solution of linear optimization problems the simplex algorithm was established by Dantzig about 1950 In addition the fundamental theorems on such problems were rapidly developed based on earlier published results on the properties of systems of linear inequalities Approximation and Computation Walter Gautschi,Giuseppe Mastroianni,Themistocles M. Rassias,2010-10-20 Approximation theory and numerical analysis are central to the creation of accurate computer simulations and mathematical models Research in these areas can influence the computational techniques used in a variety of mathematical and computational sciences This collection of contributed chapters dedicated to renowned mathematician Gradimir V Milovanovi represent the recent work of experts in the fields of approximation theory and numerical analysis These invited contributions describe new trends in these important areas of research including theoretic developments new computational algorithms and multidisciplinary applications Special features of this volume Presents results and approximation methods in various computational settings including polynomial and orthogonal systems analytic functions and differential equations Provides a historical overview of approximation theory and many of its subdisciplines Contains new results from diverse areas of research spanning mathematics engineering and the computational sciences Approximation and Computation is intended for mathematicians and researchers focusing on approximation theory and numerical analysis but can also be a valuable resource to students

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homepage sac.cam.ac.uk/index.html HREF 7 Volume Set now available at special set price The field of numerical analysis has witnessed many significant developments in the 20th century and will continue to enjoy major new advances in the years ahead Therefore it seems appropriate to compile a state of the art volume devoted to numerical analysis in the 20th century This volume on Approximation Theory is the first of seven volumes that will be published in this Journal It brings together the papers dealing with historical developments survey papers and papers on recent trends in selected areas In his paper G A Watson gives an historical survey of methods for solving approximation problems in normed linear spaces He considers approximation in L_p and Chebyshev norms of real functions and data Y Nievergelt describes the history of least squares approximation His paper surveys the development and applications of ordinary constrained weighted and total least squares approximation D Leviatan discusses the degree of approximation of a function in the uniform or L_p norm The development of numerical algorithms is strongly related to the type of approximating functions that are used e.g. orthogonal polynomials splines and wavelets and several authors describe these different approaches E Godoy A Ronveaux A Zarzo and I Area treat the topic of classical orthogonal polynomials R Piessens in his paper illustrates the use of Chebyshev polynomials in computing integral transforms and for solving integral equations Some developments in the use of splines are described by G Nurnberger F Zeilfelder for the bivariate case and by R H Wang in the multivariate case For the numerical treatment of functions of several variables radial basis functions are useful tools R Schaback treats this topic in his paper Certain aspects of the computation of Daubechies wavelets are explained and illustrated in the paper by C Taswell P Guillaume and A Huard explore the case of multivariate Padé approximation Special functions have played a crucial role in approximating the solutions of certain scientific problems N Temme illustrates the usefulness of parabolic cylinder functions and J M Borwein D M Bradley R E Crandall provide a compendium of evaluation methods for the Riemann zeta function S Lewanowicz develops recursion formulae for basic hypergeometric functions Aspects of the spectral theory for the classical Hermite differential equation appear in the paper by W M Everitt L L Littlejohn and R Wellman Many applications of approximation theory are to be found in linear system theory and model reduction The paper of B De Schutter gives an overview of minimal state space realization in linear system theory and the paper by A Bultheel and B De Moor describes the use of rational approximation in linear systems and control For problems whose solutions may have singularities or infinite domains sinc approximation methods are of value F Stenger summarizes the results in this field in his contribution G Alefeld and G Mayer provide a survey of the historical development of interval analysis including several applications of interval mathematics to numerical computing These papers illustrate the profound impact that ideas of approximation theory have had in the creation of numerical algorithms for solving real world scientific problems Furthermore approximation theoretical concepts have proved to be basic tools in the analysis of the applicability of these algorithms We thank the authors of the above papers for their

willingness to contribute to this volume Also we very much appreciate the referees for their role in making this volume a valuable source of information for

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