NONCONVEX OPTIMIZATION AND ITS APPLICATIONS

Nonlinear Optimization in Finite Dimensions

Morse Theory, Chebyshev Approximation, Transversality, Flows, Parametric Aspects

Hubertus Th. Jongen, Peter Jonker and Frank Twilt

Springer-Science+Business Media, B.V.

Nonlinear Optimization In Finite Dimensions Morse Theory Chebyshev Approximation Trasversality Flows Parametric Aspects

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Nonlinear Optimization in Finite Dimensions Hubertus Th. Jongen,P. Jonker,F. Twilt,2013-12-11 At the heart of the topology of global optimization lies Morse Theory The study of the behaviour of lower level sets of functions as the level varies Roughly speaking the topology of lower level sets only may change when passing a level which corresponds to a stationary point or Karush Kuhn Tucker point We study elements of Morse Theory both in the unconstrained and constrained case Special attention is paid to the degree of differentiabil ity of the functions under consideration The reader will become motivated to discuss the possible shapes and forms of functions that may possibly arise within a given problem framework In a separate chapter we show how certain ideas may be carried over to nonsmooth items such as problems of Chebyshev approximation type We made this choice in order to show that a good under standing of regular smooth problems may lead to a straightforward treatment of just continuous problems by means of suitable perturbation techniques taking a priori nonsmoothness into account Moreover we make a focal point analysis in order to emphasize the difference between inner product norms and for example the maximum norm Then specific tools from algebraic topol ogy in particular homology theory are treated in some detail However this development is carried out only as far as it is needed to understand the relation between critical points of a function on a manifold with structured boundary Then we pay attention to three important subjects in nonlinear optimization **Introduction to the Theory of Nonlinear Optimization** Johannes Jahn,2020-07-02 This book serves as an introductory text to optimization theory in normed spaces and covers all areas of nonlinear optimization It presents fundamentals with particular emphasis on the application to problems in the calculus of variations approximation and optimal control theory The reader is expected to have a basic knowledge of linear functional analysis **Nonlinear Analysis and Optimization II** Simeon Reich,Aleksandr Davidovich Ioffe,2010 This volume is the second of two volumes representing leading themes of current research in nonlinear analysis and optimization The articles are written by prominent researchers in these two areas and bring the readers advanced graduate students and researchers alike to the frontline of the vigorous research in important fields of mathematics This volume contains articles on optimization Topics covered include the calculus of variations constrained optimization problems mathematical economics metric regularity nonsmooth analysis optimal control subdifferential calculus time scales and transportation traffic The companion volume Contemporary Mathematics Volume 513 is devoted to nonlinear analysis This book is co published with Bar Ilan University Ramat Gan Israel Table of Contents J P Aubin and S Martin Travel time tubes regulating transportation traffic R Baier and E Farkhi The directed subdifferential of DC functions Z Balanov W Krawcewicz and H Ruan Periodic solutions to O 2 symmetric variational problems O 2 times S 1 equivariant gradient degree approach J F Bonnans and N P Osmolovskii Quadratic growth conditions in optimal control problems J M Borwein and S Sciffer An explicit non expansive

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Elementary Convexity with Optimization Vivek S. Borkar,K. S. Mallikarjuna Rao,2023-06-26 This book develops the concepts of fundamental convex analysis and optimization by using advanced calculus and real analysis Brief accounts of advanced calculus and real analysis are included within the book The emphasis is on building a geometric intuition for the subject which is aided further by supporting figures Two distinguishing features of this book are the use of elementary alternative proofs of many results and an eclectic collection of useful concepts from optimization and convexity often needed by researchers in optimization game theory control theory and mathematical economics A full chapter on optimization algorithms gives an overview of the field touching upon many current themes The book is useful to advanced undergraduate and graduate students as well as researchers in the fields mentioned above and in various engineering disciplines

Nonlinear Optimization in IRN: Transversality, flows, parametric aspects Hubertus Th. Jongen,P. Jonker,F. Twilt,1986 In this second volume we pay attention to three important subjects in nonlinear optimization The first one concerns the dependence of an optimization problem on the problem data stability resp sensitivity aspects are considered from both a local and global point of view Since stability results are intimately related with some concepts of transversality we treat transversality theory in detail A second subject consists on one hand of gradients the gradient differential equation and its use in the search for several local minima On the other hand we treat the underlying differential equation for Newton s method for finding critical points of a function Again transversality plays a crucial role Finally we consider optimization problems depending on parameters critical sets bifurcation of the feasible set etc The present volume is preceded by a first one in which we study manifolds with boundary and critical point theory Morse theory within the framework of nonlinear optimization **Topological Aspects of Nonsmooth Optimization** Vladimir Shikhman,2011-11-18 This book deals with nonsmooth structures arising within the optimization setting It considers four optimization problems namely mathematical programs with complementarity constraints general semi infinite programming problems mathematical programs with vanishing constraints and bilevel optimization The author uses the topological approach and topological invariants of

corresponding feasible sets are investigated Moreover the critical point theory in the sense of Morse is presented and parametric and stability issues are considered The material progresses systematically and establishes a comprehensive theory for a rather broad class of optimization problems tailored to their particular type of nonsmoothness Topological Aspects of Nonsmooth Optimization will benefit researchers and graduate students in applied mathematics especially those working in optimization theory nonsmooth analysis algebraic topology and singularity theory *The British National Bibliography* Arthur James Wells,2000 **Kybernetika** ,2004 *Mathematical Reviews* ,2001 **Preismanagement für Telekommunikationsdienstleistungen** Cornelia Schön-Peterson,2013-03-08 Cornelia Sch n Peterson entwickelt Modelle und Methoden zur optimalen Gestaltung zweiteiliger und innovativer multiattributiver Tarife Diese bilden die Grundlage eines Decision Support Systems dessen Leistungsf higkeit und Praxistauglichkeit im Rahmen eines integrierten Preismanagements in einer Fallstudie demonstriert wird Handbook of Numerical Analysis Philippe G. Ciarlet,Jacques Louis Lions,Jacques-Louis Lions,1990 Boekblad ,2001 **Nonlinear Optimization in IR[superscript N]: Morse theory, Chebyshev approximation** Hubertus Th. Jongen,1983 **Nonlinear Optimization in IR [symbol for Nth Power]** Hubertus Th. Jongen,Peter Jonker,Frank Twilt,1983 In this first volume manifolds with boundary and critical point theory play an important role We focus our attention to topological aspects in nonlinear optimization In this way we do not treat numerical and algorithmic features however we believe that the present work will provide a good insight into nonlinear phenomenae and that it will be helpful in order to device computational strategies towards global optimization In order to underline the geometry of our analysis many figures are included In a second volume we treat structural stability transversality gradient Newton flows and parametric aspects **Nonlinear Optimization in IR [symbol for Nth Power]: Morse theory, Chebyshev approximation** Hubertus Th. Jongen,P. Jonker,F. Twilt,1983 **Introduction to Nonlinear Optimization** Amir Beck,2014-10-27 This book provides the foundations of the theory of nonlinear optimization as well as some related algorithms and presents a variety of applications from diverse areas of applied sciences The author combines three pillars of optimization theoretical and algorithmic foundation familiarity with various applications and the ability to apply the theory and algorithms on actual problems and rigorously and gradually builds the connection between theory algorithms applications and implementation Readers will find more than 170 theoretical algorithmic and numerical exercises that deepen and enhance the reader s understanding of the topics The author includes offers several subjects not typically found in optimization books for example optimality conditions in sparsity constrained optimization hidden convexity and total least squares The book also offers a large number of applications discussed theoretically and algorithmically such as circle fitting Chebyshev center the Fermat Weber problem denoising clustering total least squares and orthogonal regression and theoretical and algorithmic topics demonstrated by the MATLAB toolbox CVX and a package of m files that is posted on the book s web site **Approximation and Convergence in Nonlinear Optimization** Hedy Attouch,Roger J.-B. Wets,1980

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