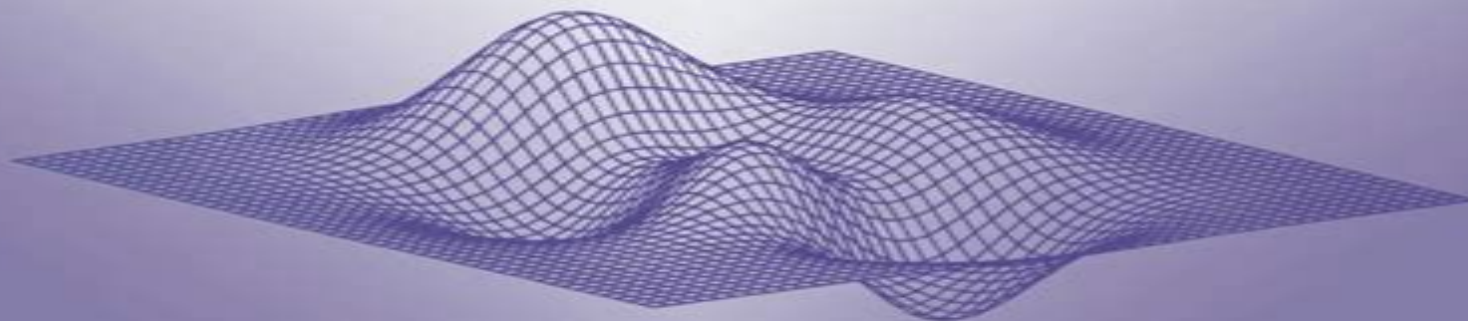


NONCONVEX OPTIMIZATION AND ITS APPLICATIONS

Nondifferentiable Optimization and Polynomial Problems

Naum Z. Shor



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Nondifferentiable Optimization And Polynomial Problems

L Darling-Hammond



Nondifferentiable Optimization And Polynomial Problems:

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Nondifferentiable Optimization and Polynomial Problems N.Z. Shor, 2013-04-17 Polynomial extremal problems PEP constitute one of the most important subclasses of nonlinear programming models Their distinctive feature is that an objective function and constraints can be expressed by polynomial functions in one or several variables Let $e \in \mathbb{R}^n$ be the vector in n dimensional real linear space \mathbb{R}^n P_0, P_1, \dots, P_m are polynomial functions in \mathbb{R} with real coefficients In general a PEP can be formulated in the following form $\min_{x \in \mathbb{R}^n} P_0(x)$ subject to constraints $P_i(x) \leq 0, i = 1, \dots, m$ a constraint in the form of inequality can be written in the form of equality by introducing a new variable for example $P(x) \leq 0$ is equivalent to $P(x) + y^2 = 0$ Boolean and mixed polynomial problems can be written in usual form by adding for each boolean variable z the equality $z^2 = z$ Let $a = (a_1, \dots, a_n)$ be integer vector with nonnegative entries $a_i \in \mathbb{N}$ Denote by R_a a monomial in n variables of the form $R_a = x_1^{a_1} \dots x_n^{a_n}$ $d_a = \sum_{i=1}^n a_i$ is the total degree of monomial R_a Each polynomial in n variables can be written as sum of monomials with nonzero coefficients $P \in \mathbb{R}[x]$ **Nondifferentiable optimization and polynomial problems** where $A(P)$ is the set of monomials contained in polynomial P

Novel Approaches to Hard Discrete Optimization Panos M. Pardalos, Henry Wolkowicz, During the last decade many novel approaches have been considered for dealing with computationally difficult discrete optimization problems Such approaches include interior point methods semidefinite programming techniques and global optimization More efficient computational algorithms have been developed and larger problem instances of hard discrete problems have been solved This progress is due in part to these novel approaches but also to new computing facilities and massive parallelism This volume contains the papers presented at the workshop on Novel Approaches to Hard Discrete Optimization The articles cover a spectrum of issues regarding computationally hard discrete problems [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

Tensor Analysis Liqun Qi,Ziyan Luo,2017-04-19 Tensors or hypermatrices are multi arrays with more than two indices In the last decade or so many concepts and results in matrix theory some of which are nontrivial have been extended to tensors and have a wide range of applications for example spectral hypergraph theory higher order Markov chains polynomial optimization magnetic resonance imaging automatic control and quantum entanglement problems The authors provide a comprehensive discussion of this new theory of tensors

Tensor Analysis Spectral Theory and Special Tensors is unique in that it is the first book on these three subject areas spectral theory of tensors the theory of special tensors including nonnegative tensors positive semidefinite tensors completely positive tensors and copositive tensors and the spectral hypergraph theory via tensors

Advances in Convex Analysis and Global Optimization Nicolas Hadjisavvas,Panos M. Pardalos,2013-12-01 There has been much recent progress in global optimization algorithms for nonconvex continuous and discrete problems from both a theoretical and a practical perspective Convex analysis plays a fundamental role in the analysis and development of global optimization algorithms This is due essentially to the fact that virtually all nonconvex optimization problems can be described using differences of convex functions and differences of convex sets A conference on Convex Analysis and Global Optimization was held during June 5-9 2000 at Pythagorion Samos Greece The conference was honoring the memory of C Caratheodory 1873-1950 and was endorsed by the Mathematical Programming Society MPS and by the Society for Industrial and Applied Mathematics SIAM Activity Group in Optimization The conference was sponsored by the European Union through the EPEAEK program the Department of Mathematics of the Aegean University and the Center for Applied Optimization of the University of Florida by the General Secretariat of Research and Technology of Greece by the Ministry of Education of Greece and several local Greek government agencies and companies This volume contains a selective collection of refereed papers based on invited and contributing talks presented at this conference The two themes of convexity and global optimization pervade this book The conference provided a forum for researchers working on different aspects of convexity and global optimization to present their recent discoveries and to interact with people working on complementary aspects of mathematical programming

System Analysis & Intelligent Computing Michael Zgurovsky,Nataliya Pankratova,2022-03-25 The book contains the newest advances related to research and development of complex intellectual systems of various nature acting under conditions of uncertainty and multifactor risks intelligent systems for decision making high performance computing state of the art information technologies for needs of science industry economy and environment The most important

problems of sustainable development and global threats estimation forecast and foresight in tasks of planning and strategic decision making are investigated This monograph will be useful to researchers post graduates and advanced students specializing in system analysis decision making strategic planning or engineering design fundamentals of computational Intelligence artificial Intelligence systems based on hybrid neural networks big data and data mining

Optimization Methods and Applications Sergiy Butenko, Panos M. Pardalos, Volodymyr Shylo, 2018-02-20 Researchers and practitioners in computer science optimization operations research and mathematics will find this book useful as it illustrates optimization models and solution methods in discrete non differentiable stochastic and nonlinear optimization Contributions from experts in optimization are showcased in this book showcase a broad range of applications and topics detailed in this volume including pattern and image recognition computer vision robust network design and process control in nonlinear distributed systems This book is dedicated to the 80th birthday of Ivan V Sergienko who is a member of the National Academy of Sciences NAS of Ukraine and the director of the V M Glushkov Institute of Cybernetics His work has had a significant impact on several theoretical and applied aspects of discrete optimization computational mathematics systems analysis and mathematical modeling

Stochastic Linear Programming Peter Kall, János Mayer, 2005

CONTENIDO Basic Linear Programming Prerequisites Nonlinear Programming Prerequisites Single Stage SLP models Models involving probability functions Quantile functions Value at Risk Models based on expectation Models built with deviation measures Modeling risk and opportunity Risk measures Multi stage SLP models The general SLP with recourse The two stage SLP The multi stage SLP Algorithms Single stage models with separate probability functions Single stage models with joint probability functions Single stage models based on expectation Single stage models involving VaR Single stage models with deviation measures Two stage recourse models Multistage recourse models Modeling systems for SLP

Noniterative Coordination in Multilevel Systems Todor Stoilov, 2012-12-06 Multilevel decision theory arises to resolve the contradiction between increasing requirements towards the process of design synthesis control and management of complex systems and the limitation of the power of technical control computer and other executive devices which have to perform actions and to satisfy requirements in real time This theory rises suggestions how to replace the centralised management of the system by hierarchical co ordination of sub processes All sub processes have lower dimensions which support easier management and decision making But the sub processes are interconnected and they influence each other Multilevel systems theory supports two main methodological tools decomposition and co ordination Both have been developed and implemented in practical applications concerning design control and management of complex systems In general it is always beneficial to find the best or optimal solution in processes of system design control and management The real tendency towards the best optimal decision requires to present all activities in the form of a definition and then the solution of an appropriate optimization problem Every optimization process needs the mathematical definition and solution of a well stated optimization problem

These problems belong to two classes static optimization and dynamic optimization Static optimization problems are solved applying methods of mathematical programming conditional and unconditional optimization Dynamic optimization problems are solved by methods of variation calculus Euler Lagrange method maximum principle dynamical programming

Multivalued Analysis and Nonlinear Programming Problems with Perturbations Bernd Luderer, Leonid Minchenko, Tatyana Satsura, 2002-12-31 The book presents a treatment of topological and differential properties of multivalued mappings and marginal functions In addition applications to sensitivity analysis of nonlinear programming problems under perturbations are studied Properties of marginal functions associated with optimization problems are analyzed under quite general constraints defined by means of multivalued mappings A unified approach to directional differentiability of functions and multifunctions forms the base of the volume Nonlinear programming problems involving quasidifferentiable functions are considered as well A significant part of the results are based on theories and concepts of two former Soviet Union researchers Demyanov and Rubinov and have never been published in English before It contains all the necessary information from multivalued analysis and does not require special knowledge but assumes basic knowledge of calculus at an undergraduate level

Modern Nonconvex Nondifferentiable Optimization Ying Cui, Jong-Shi Pang, 2021-12-02 Starting with the fundamentals of classical smooth optimization and building on established convex programming techniques this research monograph presents a foundation and methodology for modern nonconvex nondifferentiable optimization It provides readers with theory methods and applications of nonconvex and nondifferentiable optimization in statistical estimation operations research machine learning and decision making A comprehensive and rigorous treatment of this emergent mathematical topic is urgently needed in today's complex world of big data and machine learning This book takes a thorough approach to the subject and includes examples and exercises to enrich the main themes making it suitable for classroom instruction Modern Nonconvex Nondifferentiable Optimization is intended for applied and computational mathematicians optimizers operations researchers statisticians computer scientists engineers economists and machine learners It could be used in advanced courses on optimization operations research and nonconvex and nonsmooth optimization

Ten Lectures on Statistical and Structural Pattern Recognition M.I. Schlesinger, Václav Hlaváč, 2013-03-09 Preface to the English edition This monograph Ten Lectures on Statistical and Structural Pattern Recognition uncovers the close relationship between various well known pattern recognition problems that have so far been considered independent These relationships became apparent when formal procedures addressing not only known problems but also their generalisations were discovered The generalised problem formulations were analysed mathematically and unified algorithms were found The book unifies of two main streams in pattern recognition the statistical and structural ones In addition to this bridging on the uppermost level the book mentions several other unexpected relations within statistical and structural methods The monograph is intended for experts for students as well as for those who want to enter

the field of pattern recognition The theory is built up from scratch with almost no assumptions about any prior knowledge of the reader Even when rigorous mathematical language is used we make an effort to keep the text easy to comprehend This approach makes the book suitable for students at the beginning of their scientific career Basic building blocks are explained in a style of an accessible intellectual exercise thus promoting good practice in reading mathematical text The paradoxes beauty and pitfalls of scientific research are shown on examples from pattern recognition Each lecture is amended by a discussion with an inquisitive student that elucidates and deepens the explanation providing additional pointers to computational procedures and deep rooted errors

Computational Intelligence, Theory and Applications Bernd Reusch, 2006-08-18 This book constitutes the refereed proceedings of the 8th Dortmund Fuzzy Days held in Dortmund Germany 2004 The Fuzzy Days conference has established itself as an international forum for the discussion of new results in the field of Computational Intelligence All the papers had to undergo a thorough review guaranteeing a solid quality of the programme The papers are devoted to foundational and practical issues in fuzzy systems neural networks evolutionary algorithms and machine learning and thus cover the whole range of computational intelligence

Optimization Models in a Transition Economy Ivan V. Sergienko, Mikhail Mikhalevich, Ludmilla Koshlai, 2014-12-11 This book opens new avenues in understanding mathematical models within the context of a transition economy The exposition lays out the methods for combining different mathematical structures and tools to effectively build the next model that will accurately reflect real world economic processes Mathematical modeling of weather phenomena allows us to forecast certain essential weather parameters without any possibility of changing them By contrast modeling of transition economies gives us the freedom to not only predict changes in important indexes of all types of economies but also to influence them more effectively in the desired direction Simply put any economy including a transitional one can be controlled This book is useful to anyone who wants to increase profits within their business or improve the quality of their family life and the economic area they live in It is beneficial for undergraduate and graduate students specializing in the fields of Economic Informatics Economic Cybernetics Applied Mathematics and Large Information Systems as well as for professional economists and employees of state planning and statistical organizations

Mathematical Optimization Theory and Operations Research Panos Pardalos, Michael Khachay, Alexander Kazakov, 2021-06-14 This book constitutes the proceedings of the 20th International Conference on Mathematical Optimization Theory and Operations Research MOTOR 2021 held in Irkutsk Russia in July 2021 The 29 full papers and 1 short paper presented in this volume were carefully reviewed and selected from 102 submissions Additionally 2 full invited papers are presented in the volume The papers are grouped in the following topical sections combinatorial optimization mathematical programming bilevel optimization scheduling problems game theory and optimal control operational research and mathematical economics data analysis

Convex Optimization Algorithms Dimitri Bertsekas, 2015-02-01 This book provides a comprehensive and accessible presentation of algorithms for solving convex

optimization problems It relies on rigorous mathematical analysis but also aims at an intuitive exposition that makes use of visualization where possible This is facilitated by the extensive use of analytical and algorithmic concepts of duality which by nature lend themselves to geometrical interpretation The book places particular emphasis on modern developments and their widespread applications in fields such as large scale resource allocation problems signal processing and machine learning The book is aimed at students researchers and practitioners roughly at the first year graduate level It is similar in style to the author's 2009 Convex Optimization Theory book but can be read independently The latter book focuses on convexity theory and optimization duality while the present book focuses on algorithmic issues The two books share notation and together cover the entire finite dimensional convex optimization methodology To facilitate readability the statements of definitions and results of the theory book are reproduced without proofs in Appendix B

Energy Minimization Methods in Computer Vision and Pattern Recognition Yuri Boykov, Fredrik Kahl, Victor Lempitsky, Frank R. Schmidt, 2011-07-22 This book constitutes the refereed proceedings of the 8th International Workshop on Energy Minimization Methods in Computer Vision and Pattern Recognition EMMCVPR 2011 held in St Petersburg Russia in July 2011 The book presents 30 revised full papers selected from a total of 52 submissions The book is divided in sections on discrete and continuous optimization segmentation motion and video learning and shape analysis

Emerging Applications of Control and Systems Theory Roberto Tempo, Stephen Yurkovich, Pradeep Misra, 2018-02-24 This book celebrates Professor Mathukumalli Vidyasagar's outstanding achievements in systems control robotics statistical learning computational biology and allied areas The contributions in the book summarize the content of invited lectures given at the workshop Emerging Applications of Control and Systems Theory EACST17 held at the University of Texas at Dallas in late September 2017 in honor of Professor Vidyasagar's seventieth birthday These contributions are the work of twenty eight distinguished speakers from eight countries and are related to Professor Vidyasagar's areas of research This Festschrift volume will remain as a permanent scientific record of this event

Topical Directions of Informatics Ivan V. Sergienko, 2014-04-01 This work is devoted to the late Ukrainian computer scientist V M Glushkov on the 90th anniversary of his birthday Dr Glushkov is known for his contribution to the world computer science and technology and this volume analyzes the ideas and paths of development of informatics formulated by him and demonstrate their important role in constructing computer technologies of basic research in the fields of applied mathematics theories of computer programming and computing systems A significant portion of the monograph is devoted to the elucidation of new results obtained in the field of mathematical modeling of complicated processes creation of new methods for solving and investigating optimization problems in different statements and development of computer technologies for investigations in the field of economy biology medicine and information security in systems The monograph will be of particular interest to informatics specialists and experts using methods of informatics and computer technologies to investigate complicated processes of different natures and developing new information technologies It may also be useful for

both graduate students and postgraduates specializing in Computer Science

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