Yaroslav D. Sergeyev Roman G. Strongin Daniela Lera

Introduction to Global Optimization Exploiting Space-Filling Curves



Introduction To Global Optimization

A. Migdalas, Panos M. Pardalos, Peter Värbrand

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Introduction to Global Optimization R. Horst, Panos M. Pardalos, Nguyen Van Thoai, 1995-06-30 Global optimization concerns the computation and characterization of global optima of nonlinear functions Such problems are widespread in the mathematical modelling of real systems in a very wide range of applications and the last 30 years have seen the development of many new theoretical algorithmic and computational contributions which have helped to solve globally multiextreme problems in important practical applications Most of the existing books on optimization focus on the problem of computing locally optimal solutions Introduction to Global Optimization however is a comprehensive textbook on constrained global optimization that covers the fundamentals of the subject presenting much new material including algorithms applications and complexity results for quadratic programming concave minimization DC and Lipschitz problems and nonlinear network flow Each chapter contains illustrative examples and ends with carefully selected exercises designed to help students grasp the material and enhance their knowledge of the methods involved Audience Students of mathematical programming and all scientists from whatever discipline who need global optimization methods in such diverse areas as economic modelling fixed charges finance networks and transportation databases chip design image processing nuclear and mechanical design chemical engineering design and control molecular biology and environmental engineering **Optimization** Reiner Horst, Panos M. Pardalos, Nguyen V. Thoai, 2000 *Introduction to Nonlinear and Global Optimization* Eligius M.T. Hendrix, Boglárka G.-Tóth, 2010-04-27 Nonlinear Optimization is an intriguing area of study where mathematical theory algorithms and applications converge to calculate the optimal values of continuous functions Within this subject Global Optimization aims at finding global optima for difficult problems in which many local optima might exist This book provides a compelling introduction to global and non linear optimization providing interdisciplinary readers with a strong background to continue their studies into these and other related fields The book offers insight in relevant concepts such as region of attraction and Branch and Bound by elaborating small numerical examples and exercises for the reader to follow

Introduction to Global Optimization Exploiting Space-Filling Curves Yaroslav D. Sergeyev, Roman G. Strongin, Daniela Lera, 2013-07-31 Lectures on Global Optimization Thomas Frederick Coleman, 2009 A large number of mathematical models in many diverse areas of science and engineering have lead to the formulation of optimization problems where the best solution globally optimal is needed This book covers a small subset of important topics in global optimization with emphasis on theoretical developments and scientific applications Deterministic Global Optimization Yaroslav D. Sergeyev, Dmitri E. Kvasov, 2017-06-16 This book begins with a concentrated introduction into deterministic global optimization and moves forward to present new original results from the authors who are well known experts in the field Multiextremal continuous problems that have an unknown structure with Lipschitz objective functions and functions having the first Lipschitz derivatives defined over hyperintervals are examined A class of algorithms using several Lipschitz

constants is introduced which has its origins in the DIRECT DIviding RECTangles method This new class is based on an efficient strategy that is applied for the search domain partitioning In addition a survey on derivative free methods and methods using the first derivatives is given for both one dimensional and multi dimensional cases Non smooth and smooth minorants and acceleration techniques that can speed up several classes of global optimization methods with examples of applications and problems arising in numerical testing of global optimization algorithms are discussed Theoretical considerations are illustrated through engineering applications Extensive numerical testing of algorithms described in this book stretches the likelihood of establishing a link between mathematicians and practitioners. The authors conclude by describing applications and a generator of random classes of test functions with known local and global minima that is used in more than 40 countries of the world This title serves as a starting point for students researchers engineers and other professionals in operations research management science computer science engineering economics environmental sciences industrial and applied mathematics to obtain an overview of deterministic global optimization Basic Concepts of Global Optimization Oliver Stein, 2024-12-06 This textbook is an introduction to global optimization which treats mathematical facts stringently on the one hand but also motivates them in great detail and illustrates them with 80 figures The book is therefore not only aimed at mathematicians but also at natural scientists engineers and economists who want to understand and apply mathematically sound methods in their field With almost two hundred pages the book provides enough choices to use it as a basis for differently designed lectures on global optimization The detailed treatment of the global solvability of optimization problems under application relevant conditions sets a new accent that enriches the stock of previous textbooks on optimization Using the theory and algorithms of smooth convex optimization the book illustrates that the global solution of a class of optimization problems frequently encountered in practice is efficiently possible while for the more difficult to handle non convex problems itdevelops in detail the ideas of branch and bound methods This book is the English translation of the 2nd edition of Grundz ge der Globalen Optimierung Springer 2021 written in German The translation was done with the help of artificial intelligence A subsequent revision was performed by the author to further refine the work and to ensure that the translation is appropriate concerning content and scientific correctness It may however read stylistically different from a conventional translation Global Optimization in Action János D. Pintér, 2013-03-14 In science engineering and economics decision problems are frequently modelled by optimizing the value of a primary objective function under stated feasibility constraints In many cases of practical relevance the optimization problem structure does not warrant the global optimality of local solutions hence it is natural to search for the globally best solution s Global Optimization in Action provides a comprehensive discussion of adaptive partition strategies to solve global optimization problems under very general structural requirements A unified approach to numerous known algorithms makes possible straightforward generalizations and extensions leading to efficient computer based implementations A considerable part of the book is

devoted to applications including some generic problems from numerical analysis and several case studies in environmental systems analysis and management The book is essentially self contained and is based on theauthor's research in cooperation on applications with a number of colleagues Audience Professors students researchers and other professionals in the fields of operations research management science industrial and applied mathematics computer science engineering economics and the environmental sciences Handbook of Global Optimization Panos M. Pardalos, H. Edwin Romeijn, 2013-04-18 In 1995 the Handbook of Global Optimization first volume edited by R Horst and P M Pardalos was published This second volume of the Handbook of Global Optimization is comprised of chapters dealing with modern approaches to global optimization including different types of heuristics Topics covered in the handbook include various metaheuristics such as simulated annealing genetic algorithms neural networks taboo search shake and bake methods and deformation methods In addition the book contains chapters on new exact stochastic and deterministic approaches to continuous and mixed integer global optimization such as stochastic adaptive search two phase methods branch and bound methods with new relaxation and branching strategies algorithms based on local optimization and dynamical search Finally the book contains chapters on experimental analysis of algorithms and software test problems and applications **Stochastic Global Optimization** Anatoly Zhigljavsky, Antanasz Zilinskas, 2007-11-20 This book aims to cover major methodological and theoretical developments in the eld of stochastic global optimization This eld includes global random search and methods based on probabilistic assumptions about the objective function We discuss the basic ideas lying behind the main algorithmic schemes formulate the most essential algorithms and outline the ways of their theor ical investigation We try to be mathematically precise and sound but at the same time we do not often delve deep into the mathematical detail referring instead to the corresponding literature We often do not consider the most q eral assumptions preferring instead simplicity of arguments For example we only consider continuous nite dimensional optimization despite the fact that some of the methods can easily be modi ed for discrete or in nite dimensional optimization problems. The authors interests and the availability of good surveys on particular topics have in uenced the choice of material in the book For example there are excellent surveys on simulated annealing both on theoretical and plementation aspects of this method and evolutionary algorithms including genetic algorithms We thus devote much less attention to these topics than they merit concentrating instead on the issues which are not that well d umented in literature We also spend more time discussing the most recent ideas which have been proposed in **Global Optimization** Leo Liberti, Nelson Maculan, 2006-06-22 Most books about global optimization the last few years describe the theory of the algorithms whereas a given implementation s quality never depends exclusively on the theoretical soundness of the algorithms that are implemented The literature rarely discusses the tuning of algorithmic parameters implementation tricks software architectures and the embedding of local solvers within global solvers And yet there are many good software implementations out there from which the entire community could learn something The scope of this book is

moving a few steps toward the systematization of the path that goes from the invention to the implementation and testing of a global optimization algorithm Some of the contributors to the book are famous and some are less well known but all are experts in the discipline of actually getting global optimization to work Thus the papers in this book address the following topics Descriptions of new implementations of general purpose or problem specific global optimization algorithms New algorithms in global optimization some with numerical results and a discussion of the implementation Surveys discussing existing software packages Handbook of Global Optimization R. Horst, Panos M. Pardalos, 2013-12-11 Global optimization is concerned with the computation and characterization of global optima of nonlinear functions During the past three decades the field of global optimization has been growing at a rapid pace and the number of publications on all aspects of global optimization has been increasing steadily Many applications as well as new theoretical algorithmic and computational contributions have resulted The Handbook of Global Optimization is the first comprehensive book to cover recent developments in global optimization Each contribution in the Handbook is essentially expository in nature but scholarly in its treatment The chapters cover optimality conditions complexity results concave minimization DC programming general quadratic programming nonlinear complementarity minimax problems multiplicative programming Lipschitz optimization fractional programming network problems trajectory methods homotopy methods interval methods and stochastic approaches The Handbook of Global Optimization is addressed to researchers in mathematical programming as well as all scientists who use optimization methods to model and solve problems **Advances in Global Optimization** David Gao, Ning Ruan, Wenxun Xing, 2014-11-11 This proceedings volume addresses advances in global optimization a multidisciplinary research field that deals with the analysis characterization and computation of global minima and or maxima of nonlinear non convex and nonsmooth functions in continuous or discrete forms. The volume contains selected papers from the third biannual World Congress on Global Optimization in Engineering combinatorial optimization duality theory topology optimization variational inequalities and complementarity problems numerical optimization stochastic models and simulation and complex simulation and supply chain analysis From Local to Global Optimization A. Migdalas, Panos M. Pardalos, Peter Värbrand, 2013-03-09 The book consists of research papers based on results presented at a conference held in Sweden to celebrate Hoang Tuy's achievements in Optimization The collection is dedicated to Professor Tuy on the occasion of his 70th birthday The papers appear in alphabetical order by first author and cover a wide range of recent results in Mathematical Programming The work of Hoang Tuy in particular in Global Optimization has provided directions for new algorithmic developments in the field Audience Faculty graduate students and researchers in mathematical programming computer science and engineering **Introduction to Global Optimization** Tuy Hoang, Groupe d'études et de recherche en analyse des décisions (Montréal, Québec), 1994 **Stochastic Adaptive Search** for Global Optimization Z.B. Zabinsky, 2013-11-27 The field of global optimization has been developing at a rapid pace

There is a journal devoted to the topic as well as many publications and notable books discussing various aspects of global optimization This book is intended to complement these other publications with a focus on stochastic methods for global optimization Stochastic methods such as simulated annealing and genetic algorithms are gaining in popularity among practitioners and engineers be they are relatively easy to program on a computer and may be cause applied to a broad class of global optimization problems However the theoretical performance of these stochastic methods is not well under stood In this book an attempt is made to describe the theoretical prop erties of several stochastic adaptive search methods Such a theoretical understanding may allow us to better predict algorithm performance and ultimately design new and improved algorithms This book consolidates a collection of papers on the analysis and development of stochastic adaptive search The first chapter introduces random search algorithms Chapters 2.5 describe the theoretical analysis of a progression of algorithms A main result is that the expected number of iterations for pure adaptive search is linear in dimension for a class of Lipschitz global optimization problems Chapter 6 discusses algorithms based on the Hit and Run sampling method that have been developed to approximate the ideal performance of pure random search The final chapter discusses several applications in engineering that use stochastic adaptive search methods **Global Optimization** Marco Locatelli, Fabio Schoen, 2013-10-16 This volume contains a thorough overview of the rapidly growing field of global optimization with chapters on key topics such as complexity heuristic methods derivation of lower bounds for minimization problems and branch and bound methods and convergence The final chapter offers both benchmark test problems and applications of global optimization such as finding the conformation of a molecule or planning an optimal trajectory for interplanetary space travel An appendix provides fundamental information on convex and concave functions Intended for Ph D students researchers and practitioners looking for advanced solution methods to difficult optimization problems It can be used as a supplementary text in an advanced graduate level seminar Introduction to Optimum Design Jasbir Singh Arora, 2004-06-02 Optimization is a mathematical tool developed in the early 1960 s used to find the most efficient and feasible solutions to an engineering problem It can be used to find ideal shapes and physical configurations ideal structural designs maximum energy efficiency and many other desired goals of engineering This book is intended for use in a first course on engineering design and optimization Material for the text has evolved over a period of several years and is based on classroom presentations for an undergraduate core course on the principles of design Virtually any problem for which certain parameters need to be determined to satisfy constraints can be formulated as a design optimization problem The concepts and methods described in the text are quite general and applicable to all such formulations Inasmuch the range of application of the optimum design methodology is almost limitless constrained only by the imagination and ingenuity of the user The book describes the basic concepts and techniques with only a few simple applications. Once they are clearly understood they can be applied to many other advanced applications that are discussed in the text Allows engineers involved in the design process to adapt optimum design concepts in their work using the material in the text Basic concepts of optimality conditions and numerical methods are described with simple examples making the material high teachable and Global Optimization János D. learnable Classroom tested for many years to attain optimum pedagogical effectiveness Pintér, 2006-10-13 Optimization models based on a nonlinear systems description often possess multiple local optima The objective of global optimization GO is to find the best possible solution of multiextremal problems This volume illustrates the applicability of GO modeling techniques and solution strategies to real world problems The contributed chapters cover a broad range of applications from agroecosystem management assembly line design bioinformatics biophysics black box systems optimization cellular mobile network design chemical process optimization chemical product design composite structure design computational modeling of atomic and molecular structures controller design for induction motors electrical engineering design feeding strategies in animal husbandry the inverse position problem in kinematics laser design learning in neural nets mechanical engineering design numerical solution of equations radiotherapy planning robot design and satellite data analysis The solution strategies discussed encompass a range of practically viable methods including both theoretically rigorous and heuristic approaches Stochastic Global Optimization: Techniques And Applications In Chemical Engineering (With Cd-rom) Gade Pandu Rangaiah, 2010-06-04 Optimization has played a key role in the design planning and operation of chemical and related processes for several decades Global optimization has been receiving considerable attention in the past two decades Of the two types of techniques for global optimization stochastic global optimization is applicable to any type of problems having non differentiable functions discrete variables and or continuous variables. It thus shows significant promise and potential for process optimization So far there are no books focusing on stochastic global optimization and its applications in chemical engineering Stochastic Global Optimization a monograph with contributions by leading researchers in the area bridges the gap in this subject with the aim of highlighting and popularizing stochastic global optimization techniques for chemical engineering applications. The book with 19 chapters in all is broadly categorized into two sections that extensively cover the techniques and the chemical engineering applications

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