ALEKSEI G. SUKHAREV

MINIMAX MODELS IN THE THEORY OF NUMERICAL METHODS

Minimax Models In The Theory Of Numerical Methods

I.R. Goodman,R.P. Mahler,Hung T. Nguyen

Minimax Models In The Theory Of Numerical Methods:

Minimax Models in the Theory of Numerical Methods A. Sukharev,2012-12-06 In the Russian edition published in 1989 this book was called Minimax Algorithms in Problems of Numerical Analysis The new title is better related to the subject of the book and its style The basis for every decision or inference concerning the ways to solve a given problem is the computa tion model Thus the computation model is the epicenter of any structure studied in the book Algorithms are not constructed here they are rather derived from computation models Quality of an algorithm depends entirely on consistency of the model with the real life problem So constructing a model is an art deriving an algorithm is a science We study only minimax or in other words worst case computation models However one of the characteristic features of the book is a new approach to the notion of the worst case conditions in dynamic processes This approach leads to the concept of sequentially optimal algorithms which play the central role in the book In conclusion I would like to express my gratitude to Prof Dr Heinz J Skala and Dr Sergei A Orlovsky for encouraging translation of this book I also greatly appreciate the highly professional job of Dr Olga R Chuyan who translated the book **Arrovian Aggregation Models** Fuad T. Aleskerov,2013-06-29 Aggregation of individual opinions into a social decision is a problem widely observed in everyday life For centuries people tried to invent the best aggregation rule In 1951 young American scientist and future Nobel Prize winner Kenneth Arrow formulated the problem in an axiomatic way i e he specified a set of axioms which every reasonable aggregation rule has to satisfy and obtained that these axioms are inconsistent This result often called Arrow s Paradox or General Impossibility Theorem had become a cornerstone of social choice theory The main condition used by Arrow was his famous Independence of Irrelevant Alternatives This very condition pre defines the local treatment of the alternatives or pairs of alternatives or sets of alternatives etc in aggregation procedures Remaining within the framework of the axiomatic approach and based on the consideration of local rules Arrovian Aggregation Models investigates three formulations of the aggregation problem according to the form in which the individual opinions about the alternatives are defined as well as to the form of desired social decision In other words we study three aggregation models What is common between them is that in all models some analogue of the Independence of Irrelevant Alternatives condition is used which is why we call these models Arrovian aggregation models Chapter 1 presents a general description of the problem of axiomatic synthesis of local rules and introduces problem formulations for various versions of formalization of individual opinions and collective decision Chapter 2 formalizes precisely the notion of rationality of individual opinions and social decision Chapter 3 deals with the aggregation model for the case of individual opinions and social decisions formalized as binary relations Chapter 4 deals with Functional Aggregation Rules which transform into a social choice function individual opinions defined as choice functions Chapter 5 considers another model Social Choice Correspondences when the individual opinions are formalized as binary relations and the collective decision is looked for as a choice function Several new classes of rules are introduced and analyzed

Fundamentals of Convex Analysis M.J. Panik,2013-03-09 Fundamentals of Convex Analysis offers an in depth look at some of the fundamental themes covered within an area of mathematical analysis called convex analysis In particular it explores the topics of duality separation representation and resolution The work is intended for students of economics management science engineering and mathematics who need exposure to the mathematical foundations of matrix games optimization and general equilibrium analysis It is written at the advanced undergraduate to beginning graduate level and the only formal preparation required is some familiarity with set operations and with linear algebra and matrix theory Fundamentals of Convex Analysis is self contained in that a brief review of the essentials of these tool areas is provided in Chapter 1 Chapter exercises are also provided Topics covered include convex sets and their properties separation and support theorems theorems of the alternative convex cones dual homogeneous systems basic solutions and complementary slackness extreme points and directions resolution and representation of polyhedra simplicial topology and fixed point theorems among others A strength of this work is how these topics are developed in a fully integrated fashion

Fundamentals of Uncertainty Calculi with Applications to Fuzzy Inference Michel Grabisch,Hung T. Nguyen,E.A. Walker,2013-04-17 With the vision that machines can be rendered smarter we have witnessed for more than a decade tremendous engineering efforts to implement intelligent sys tems These attempts involve emulating human reasoning and researchers have tried to model such reasoning from various points of view But we know precious little about human reasoning processes learning mechanisms and the like and in particular about reasoning with limited imprecise knowledge In a sense intelligent systems are machines which use the most general form of human knowledge together with human reasoning capability to reach decisions Thus the general problem of reasoning with knowledge is the core of design methodology The attempt to use human knowledge in its most natural sense that is through linguistic descriptions is novel and controversial The novelty lies in the recognition of a new type of un certainty namely fuzziness in natural language and the controversality lies in the mathematical modeling process As R Bellman 7 once said decision making under uncertainty is one of the attributes of human intelligence When uncertainty is understood as the impossi bility to predict occurrences of events the context is familiar to statisticians As such efforts to use probability theory as an essential tool for building intelligent systems have been pursued Pearl 203 Neapolitan 182 The methodology seems alright if the uncertain knowledge in a given problem can be modeled as probability measures *Bayesian and High-Dimensional Global Optimization* Anatoly Zhigljavsky,Antanas Žilinskas,2021-03-02 Accessible to a variety of readers this book is of interest to specialists graduate students and researchers in mathematics optimization computer science operations research management science engineering and other applied areas interested in solving optimization problems Basic principles potential and boundaries of applicability of stochastic global optimization techniques are examined in this book A variety of issues that face specialists in global optimization are explored such as multidimensional spaces which are frequently ignored by researchers The

importance of precise interpretation of the mathematical results in assessments of optimization methods is demonstrated through examples of convergence in probability of random search Methodological issues concerning construction and applicability of stochastic global optimization methods are discussed including the one step optimal average improvement method based on a statistical model of the objective function A significant portion of this book is devoted to an analysis of high dimensional global optimization problems and the so called curse of dimensionality An examination of the three different classes of high dimensional optimization problems the geometry of high dimensional balls and cubes very slow convergence of global random search algorithms in large dimensional problems and poor uniformity of the uniformly distributed sequences of points are included in this book **Models and Experiments in Risk and Rationality** Bertrand Munier,Mark J. Machina,2013-03-14 Models and Experiments in Risk and Rationality presents original contributions to the areas of individual choice experimental economics operations and analysis multiple criteria decision making market uncertainty game theory and social choice The papers which were presented at the FUR VI conference are arranged to appear in order of increasing complexity of the decision environment or social context in which they situate themselves The first section Psychological Aspects of Risk Bearing considers choice at the purely individual level and for the most part free of any specific economic or social context The second section examines individual choice within the classical expected utility approach while the third section works from a perspective that includes non expected utility preferences over lotteries Section four Multiple Criteria Decision Making Under Uncertainty considers the more specialized but crucial context of uncertain choice involving tradeoffs between competing criteria a field which is becoming of increasing importance in applied decision analysis The final two sections examine uncertain choice in social or group contexts A Course in Mathematical and Statistical Ecology Anil Gore,S.A. Paranjpe,2013-04-17 As the world enters the new millennium mankind faces a series ofnew prob lems many of them created by man himself These include overpopulation air and water pollution global warming accumulation of greenhouse gases darnage to the ozone layer and loss of biodiversity Perhaps these problems were around even earlier in an incipient stage but they have now assumed global proportions and are uppermost in the minds of all A natural con sequence is enhanced interest in sciences connected with these problems Ecology is a field that is immensely useful in understanding many of them In the seventies nature conservation became a concern of wide sections of society well beyond the small group of expert ecologists Species extinc tion and depletion of biological resources were seen as major threats to human welfare It was therefore natural for scientists from different disci plines to seek reasons behind these developments We were no exceptions and when opportunity to interact with ecologists as statistreal consultants came we found ourselves reading more and more of ecology and evolution ary biology Several years ago we proposed starting of an elective one semester course on statistical ecology for graduate students of statistics of Pune University **A Course in Stochastic Processes** Denis Bosq,Hung T. Nguyen,2013-03-09 This text is an Elementary Introduction to

Stochastic Processes in discrete and continuous time with an initiation of the statistical inference The material is standard and classical for a first course in Stochastic Processes at the senior graduate level lessons 1 12 To provide students with a view of statistics of stochastic processes three lessons 13 15 were added These lessons can be either optional or serve as an introduction to statistical inference with dependent observations Several points of this text need to be elaborated 1 The pedagogy is somewhat obvious Since this text is designed for a one semester course each lesson can be covered in one week or so Having in mind a mixed audience of students from different departments Math ematics Statistics Economics Engineering etc we have presented the material in each lesson in the most simple way with emphasis on moti vation of concepts aspects of applications and computational procedures Basically we try to explain to beginners questions such as What is the topic in this lesson Why this topic How to study this topic math ematically The exercises at the end of each lesson will deepen the stu dents understanding of the material and test their ability to carry out basic computations Exercises with an asterisk are optional difficult and might not be suitable for homework but should provide food for thought

High-Dimensional Optimization Jack Noonan,Anatoly Zhigljavsky,2024-05-31 This book is interdisciplinary and unites several areas of applied probability statistics and computational mathematics including computer experiments optimal experimental design and global optimization The bulk of the book is based on several recent papers by the authors but also contains new results Considering applications this brief highlights multistart and other methods of global optimizations requiring efficient exploration of the domain of optimization This book is accessible to a wide range of readers the prerequisites for reading the book are rather low and many numerical examples are provided that pictorially illustrate the main ideas methods and conclusions The main purpose of this book is the construction of efficient exploration strategies of high dimensional sets In high dimensions the asymptotic arguments could be practically misleading and hence the emphasis on the non asymptotic regime An important link with global optimization stems from the observation that approximate covering is one of the key concepts associated with multistart and other key random search algorithms In addition to global optimization important applications of the results are computer experiments and machine learning It is demonstrated that the asymptotically optimal space filling designs such as pure random sampling or low discrepancy point nets could be rather inefficient in the non asymptotic regime and the authors suggest ways of increasing the efficiency of such designs The range of techniques ranges from experimental design Monte Carlo and asymptotic expansions in the central limit theorem to multivariate geometry theory of lattices and numerical integration This book could be useful to a wide circle of readers especially those specializing in global optimization numerical analysis computer experiments and computational mathematics As specific recipes for improving set exploration schemes are formulated the book can also be used by the practitioners interested in applications only **Semiorders** Marc Pirlot,P. Vincke,2013-03-09 Semiorder is probably one of the most frequently ordered structures in science It naturally appears in fields like psychometrics economics decision sciences

linguistics and archaeology It explicitly takes into account the inevitable imprecisions of scientific instruments by allowing the replacement of precise numbers by intervals The purpose of this book is to dissect this structure and to study its fundamental properties The main subjects treated are the numerical representations of semiorders the generalizations of the concept to valued relations the aggregation of semiorders and their basic role in a general theoretical framework for multicriteria decision aid methods Audience This volume is intended for students and researchers in the fields of decision analysis management science operations research discrete mathematics classification social choice theory and order theory as well as for practitioners in the design of decision tools *Mathematics of Data Fusion* I.R. Goodman,R.P. Mahler,Hung T. Nguyen,2013-03-14 Data fusion or information fusion are names which have been primarily assigned to military oriented problems In military applications typical data fusion problems are multisensor multitarget detection object identification tracking threat assessment mission assessment and mission planning among many others However it is clear that the basic underlying concepts underlying such fusion procedures can often be used in nonmilitary applications as well The purpose of this book is twofold First to point out present gaps in the way data fusion problems are conceptually treated Second to address this issue by exhibiting mathematical tools which treat combination of evidence in the presence of uncertainty in a more systematic and comprehensive way These techniques are based essentially on two novel ideas relating to probability theory the newly developed fields of random set theory and conditional and relational event algebra This volume is intended to be both an update on research progress on data fusion and an introduction to potentially powerful new techniques fuzzy logic random set theory and conditional and relational event algebra Audience This volume can be used as a reference book for researchers and practitioners in data fusion or expert systems theory or for graduate students as text for a research seminar or graduate level course **Limit Theorems and Applications of Set-Valued and Fuzzy Set-Valued Random Variables** Shoumei Li,Y. Ogura,V. Kreinovich,2013-04-17 After the pioneering works by Robbins 1944 1945 and Choquet 1955 the notation of a set valued random variable called a random closed set in literatures was systematically introduced by Kendall 1974 and Matheron 1975 It is well known that the theory of set valued random variables is a natural extension of that of general real valued random variables or random vectors However owing to the topological structure of the space of closed sets and special features of set theoretic operations cf Beer 27 set valued random variables have many special properties This gives new meanings for the classical probability theory As a result of the development in this area in the past more than 30 years the theory of set valued random variables with many applications has become one of new and active branches in probability theory In practice also we are often faced with random experiments whose outcomes are not numbers but are expressed in inexact linguistic terms **Non-Additive Measure and Integral** D. Denneberg,1994-05-31 Non Additive Measure and Integral is the first systematic approach to the subject Much of the additive theory convergence theorems Lebesgue spaces representation theorems is generalized at least for submodular measures which are characterized

by having a subadditive integral The theory is of interest for applications to economic decision theory decisions under risk and uncertainty to statistics including belief functions fuzzy measures to cooperative game theory artificial intelligence insurance etc Non Additive Measure and Integral collects the results of scattered and often isolated approaches to non additive measures and their integrals which originate in pure mathematics potential theory statistics game theory economic decision theory and other fields of application It unifies simplifies and generalizes known results and supplements the theory with new results thus providing a sound basis for applications and further research in this growing field of increasing interest It also contains fundamental results of sigma additive and finitely additive measure and integration theory and sheds new light on additive theory Non Additive Measure and Integral employs distribution functions and quantile functions as basis tools thus remaining close to the familiar language of probability theory In addition to serving as an important reference the book can be used as a mathematics textbook for graduate courses or seminars containing many exercises to support or supplement the text **Econometrics of Information and Efficiency** Jati Sengupta,2013-03-14 Econometrics as an applied discipline attempts to use information in a most efficient manner yet the information theory and entropy approach developed by Shannon and others has not played much of a role in applied econometrics Econometrics of Information and Efficiency bridges the gap Broadly viewed information theory analyzes the uncertainty of a given set of data and its probabilistic characteristics Whereas the economic theory of information emphasizes the value of information to agents in a market the entropy theory stresses the various aspects of imprecision of data and their interactions with the subjective decision processes The tools of information theory such as the maximum entropy principle mutual information and the minimum discrepancy are useful in several areas of statistical inference e g Bayesian estimation expected maximum likelihood principle the fuzzy statistical regression This volume analyzes the applications of these tools of information theory to the most commonly used models in econometrics The outstanding features of Econometrics of Information and Efficiency are A critical survey of the uses of information theory in economics and econometrics An integration of applied information theory and economic efficiency analysis The development of a new economic hypothesis relating information theory to economic growth models New lines of research are emphasized **Case-Based Approximate Reasoning** Eyke Hüllermeier,2007-03-20 Making use of different frameworks of approximate reasoning and reasoning under uncertainty notably probabilistic and fuzzy set based techniques this book develops formal models of the above inference principle which is fundamental to CBR The case based approximate reasoning methods thus obtained especially emphasize the heuristic nature of case based inference and aspects of uncertainty in CBR **Statistical Analysis of Observations of Increasing Dimension** V.L. Girko,2013-03-09 Statistical Analysis of Observations of Increasing Dimension is devoted to the investigation of the limit distribution of the empirical generalized variance covariance matrices their eigenvalues and solutions of the system of linear algebraic equations with random coefficients which are an important function of observations in

multidimensional statistical analysis A general statistical analysis is developed in which observed random vectors may not have density and their components have an arbitrary dependence structure The methods of this theory have very important advantages in comparison with existing methods of statistical processing The results have applications in nuclear and statistical physics multivariate statistical analysis in the theory of the stability of solutions of stochastic differential equations in control theory of linear stochastic systems in linear stochastic programming in the theory of experiment planning

Beliefs, Interactions and Preferences Mark J. Machina,Bertrand Munier,2013-03-09 Beliefs Interactions and Preferences in Decision Making mixes a selection of papers presented at the Eighth Foundations and Applications of Utility and Risk Theory FUR VIII conference in Mons Belgium together with a few solicited papers from well known authors in the field This book addresses some of the questions that have recently emerged in the research on decision making and risk theory In particular authors have modeled more and more as interactions between the individual and the environment or between different individuals the emergence of beliefs as well as the specific type of information treatment traditionally called rationality This book analyzes several cases of such an interaction and derives consequences for the future of decision theory and risk theory In the last ten years modeling beliefs has become a specific sub field of decision making particularly with respect to low probability events Rational decision making has also been generalized in order to encompass in new ways and in more general situations than it used to be fitted to multiple dimensions in consequences This book deals with some of the most conspicuous of these advances It also addresses the difficult question to incorporate several of these recent advances simultaneously into one single decision model And it offers perspectives about the future trends of modeling such complex decision questions The volume is organized in three main blocks The first block is the more traditional one It deals with new extensions of the existing theory as is always demanded by scientists in the field A second block handles specific elements in the development of interactions between individuals and their environment as defined in the most general sense The last block confronts real world problems in both financial and non financial markets and decisions and tries to show what kind of contributions can be brought to them by the type of research reported on here   Markets, Risk and Money Bertrand Munier,2012-12-06 Most of the writings of Maurice Allais 1988 Nobel Laureate in Economics have only been published in French Thus to date economists management scientists and operations researchers have been severely restricted in gaining access to his work Markets Risk and Money presents for the first time in English Allais unconventional views on economic competition the significance of free markets and overlapping generations risk psychology central banking taxation systems monetary dynamics and reform The volume provides a consistent vision of our society and offers readers an evaluation of the impact of Allais work on our present body of knowledge Markets Risk and Money contains contributions from a number of distinguished European and American scholars including Bertrand Munier Thierry Montbrial J Lesourne Claude Ponsard Edmond Malinvaud Andr Babeau Marcel Boiteux Lola L Lopes Mark J Machina James B Ramsey Xavier Freixas B Roy and D

Bouyssou Werner Leinfellner and Jean Jacques Durand A biographical sketch and complete bibliography of the author are also included   Thesaurus of DDC Descriptors Defense Documentation Center (U.S.),1966   **Mathematical Optimization Theory and Operations Research** Anton Eremeev,Michael Khachay,Yury Kochetov,Vladimir Mazalov,Panos Pardalos,2024-06-17 This book constitutes the refereed proceedings of the 23rd International Conference on Mathematical Optimization Theory and Operations Research MOTOR 2024 held in Omsk Russia during June 30 July 6 2024 The 30 full papers included in this book were carefully reviewed and selected from 79 submissions This book also contains two invited talk They were organized in topical sections as follows mathematical programming combinatorial optimization game theory and operations research

Unveiling the Power of Verbal Beauty: An Mental Sojourn through **Minimax Models In The Theory Of Numerical Methods**

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