Matthias Ehrgott

Multicriteria Optimization

Second Edition



Multicriteria Optimization Hardcover

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Multicriteria Optimization Matthias Ehrgott, 2006-01-16 Decision makers in many areas from industry to engineering and the social sector face an increasing need to consider multiple conflicting objectives in their decision processes In many cases these real world decision problems can be formulated as multicriteria mathematical optimization models The solution of such models requires appropriate techniques to compute so called efficient or Pareto optimal or compromise solutions that unlike traditional mathematical programming methods take the contradictory nature of the criteria into account This book provides the necessary mathematical foundation of multicriteria optimization to solve nonlinear linear and combinatorial problems with multiple criteria Motivational examples illustrate the use of multicriteria optimization in practice Numerous illustrations and exercises as well as an extensive bibliography are provided In the new edition a chapter on optimality conditions has been added The linear programming part has been extended and includes new developments Moreover motivational examples are now introducing the majority of chapters Multicriteria Optimization in Engineering and in the Sciences Wolfram Stadler, 2013-12-14 We are rarely asked to make decisions based on only one criterion most often decisions are based on several usually confticting criteria In nature if the design of a system evolves to some final optimal state then it must include a balance for the interaction of the system with its surroundings certainly a design based on a variety of criteria Furthermore the diversity of nature s designs suggests an infinity of such optimal states In another sense decisions simultaneously optimize a finite number of criteria while there is usually an infinity of optimal solutions Multicriteria optimization provides the mathematical framework to accommodate these demands Multicriteria optimization has its roots in mathematical economics in particular in consumer economics as considered by Edgeworth and Pareto The critical question in an exchange economy concerns the equilibrium point at which each of N consumers has achieved the best possible deal for hirnself or herself Ultimately this is a collective decision in which any further gain by one consumer can occur only at the expense of at least one other consumer Such an equilibrium concept was first introduced by Edgeworth in 1881 in his book on mathematical psychics Today such an optimum is variously called Pareto optimum after the Italian French welfare economist who continued and expanded Edgeworth's work efficient nondominated and so on

Multicriteria Optimization and Engineering R.B. Statnikov, J.B. Matusov, 2012-12-06 method enables readers to efficiently design higher quality lower cost objects with less metal requirements vibration and noise and with lower dynamic loads and energy consumption determine optimal solutions regardless of the number of criteria involved and to identify relationships among different criteria and between criteria and design variables accurately account for discrepancies between theoretical and actual characteristics using a special set of adequacy criteria determine optimal design variables for complex finite element models In addition the book helps readers enhance the potential of the PSI method with theoretical investigations and algorithms for approximating the feasible solutions set and Pareto optimal set facilitate proficient problem solving by

incorporating recently obtained results from the theory of uniformly distributed sequences evaluate design procedures by observing examples ranging from machine tools and agricultural equipment to automobiles and aviation This practical in depth treatment of multicriteria optimization and engineering is essential for engineers and designers working in research and development of manufacturing machines mechanisms and structures It is also an important text for students of applied mathematics mechanical engineering optimal control and operations research The Power of Compromise Kai-Simon Multicriteria Design Optimization Hans Eschenauer, Juhani Koski, Andrzej Osyczka, 2012-12-06 Interest in the fascinating field of multicriteria optimization and its application to design processes has grown very quickly in recent years Researchers and practising engineers will find this book an comprehensive presentation of this subject After an introduction to multicriteria optimization and the advantages of using multicriteria techniques the first part of the book presents methods and computer procedures for solving multicriteria optimum design problems including interactive methods and knowledge based systems. The second part presents an extensive range of applications of these methods to design processes in the following fields mechanisms and dynamic systems aircraft and space technology machine tool design metal forming and cast metal technology civil and architectural engineering and structures made of advanced materials **Fuzzy** Optimization and Multi-Criteria Decision Making in Digital Marketing Kumar, Anil, Dash, Manoj Kumar, 2015-10-27 Abstract This book applies fuzzy theory and multi criteria decision making principles for better practice in the digital business environment through the use of timely research and case studies on practical implementation of such theories in the digital marketplace Provided by publisher **Advances in Optimization and Applications** Nicholas Olenev, Yuri Evtushenko, Michael Khachay, Vlasta Malkova, 2021-01-17 This book constitutes the refereed proceedings of the 11th International Conference on Optimization and Applications OPTIMA 2020 held in September October 2020 Due to the COVID 19 pandemic the conference was held online The 18 revised full papers presented were carefully reviewed and selected from 60 submissions The papers are organized in topical sections on global optimization combinatorial and discrete optimization optimal control optimization in economy finance and social sciences applications Data Mining, Rough Sets and **Granular Computing** Tsau Young Lin, Yiyu Y. Yao, Lotfi A. Zadeh, 2002-04-10 During the past few years data mining has grown rapidly in visibility and importance within information processing and decision analysis. This is par ticularly true in the realm of e commerce where data mining is moving from a nice to have to a must have status In a different though related context a new computing methodology called granular computing is emerging as a powerful tool for the conception analysis and design of information intelligent systems In essence data mining deals with summarization of information which is resident in large data sets while granular computing plays a key role in the summarization process by drawing together points objects which are related through similarity proximity or functionality In this perspective granular computing has a position of centrality in data mining Another methodology which has high relevance to data mining and plays a central role in

this volume is that of rough set theory Basically rough set theory may be viewed as a branch of granular computing However Structural Design Optimization Considering its applications to data mining have predated that of granular computing <u>Uncertainties</u> Yannis Tsompanakis, Nikos D. Lagaros, Manolis Papadrakakis, 2008-02-07 Uncertainties play a dominant role in the design and optimization of structures and infrastructures In optimum design of structural systems due to variations of the material manufacturing variations variations of the external loads and modelling uncertainty the parameters of a structure a structural system and its environment are not given fixed coefficients but random variables with a certain probability distribution The increasing necessity to solve complex problems in Structural Optimization Structural Reliability and Probabilistic Mechanics requires the development of new ideas innovative methods and numerical tools for providing accurate numerical solutions in affordable computing times This book presents the latest findings on structural optimization considering uncertainties It contains selected contributions dealing with the use of probabilistic methods for the optimal design of different types of structures and various considerations of uncertainties. The first part is focused on reliability based design optimization and the second part on robust design optimization Comprising twenty one self contained chapters by prominent authors in the field it forms a complete collection of state of the art theoretical advances and applications in the fields of structural optimization structural reliability and probabilistic computational mechanics It is recommended to researchers engineers and students in civil mechanical naval and aerospace engineering and to professionals working on **Evolutionary Algorithms for Single and Multicriteria Design Optimization** complicated costs effective design problems Andrzej Osyczka, 2002 Many design optimization problems are of a very complex nature and quite hard to solve by conventional optimization techniques Genetic and evolutionary algorithms have recently received considerable attention because of their potential of being a very effective design optimization technique. The book starts with an introduction to design optimization which is followed by a description of genetic and evolutionary algorithms Then the advanced evolutionary algorithm techniques are provided These techniques are used in the single and multicriteria optimization methods described in this book Finally three real life design optimization problems are formulated and solved by means of these methods The book is designed as a self study guide for researchers and students in all engineering departments especially in mechanical civil and industrial engineering The book may also be useful as a comprehensive text for operations researchers artifical intelligence researchers

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