

COMBINATORIAL OPTIMIZATION

Discrete and Fractional Programming Techniques for Location Models

Ana Isabel Barros

Springer Science+Business Media, B.V.

Discrete And Fractional Programming Techniques For Location Models

**Christodoulos A. Floudas, Panos M.
Pardalos**



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Discrete and Fractional Programming Techniques for Location Models A.I. Barros,2013-11-21 At first sight discrete and fractional programming techniques appear to be two completely unrelated fields in operations research We will show how techniques in both fields can be applied separately and in a combined form to particular models in location analysis Location analysis deals with the problem of deciding where to locate facilities considering the clients to be served in such a way that a certain criterion is optimized The term facilities immediately suggests factories warehouses schools etc while the term clients refers to depots retail units students etc Three basic classes can be identified in location analysis continuous location network location and discrete location The differences between these fields arise from the structure of the set of possible locations for the facilities Hence locating facilities in the plane or in another continuous space corresponds to a continuous location model while finding optimal facility locations on the edges or vertices of a network corresponds to a network location model Finally if the possible set of locations is a finite set of points we have a discrete location model Each of these fields has been actively studied arousing intense discussion on the advantages and disadvantages of each of them The usual requirement that every point in the plane or on the network must be a candidate location point is one of the mostly used arguments against continuous and network location models *Discrete and Fractional Programming Techniques for*

Location Models Ana Isabel Barros,1995-01-01 Combinatorial Optimization and Applications Teodor Gabriel

Crainic,Michel Gendreau,Antonio Frangioni,2024-06-27 Combinatorial Optimization represents a major component of Operations Research Mathematical Programming and in a broader sense the development of digital intelligence and society It covers in particular such important areas as network design location routing and scheduling with major applications in transportation logistics health systems production communications and energy Starting from the exceptional contribution Professor Bernard Gendron made to combinatorial optimization and its applications in multiple areas the book presents a state of the art view on the field through a combination of surveys expository articles and focused methodological and applied research The authors hail from various Operations Research areas and institutions around the world Having collaborated closely with Professor Gendron they drew on his foundational work to showcase a variety of models and algorithms that draw a living picture of the multifaceted world of applied combinatorial optimization **Handbook of Generalized Convexity**

and Generalized Monotonicity Nicolas Hadjisavvas,Sándor Komlós,Siegfried S. Schaible,2006-01-16 Studies in generalized convexity and generalized monotonicity have significantly increased during the last two decades Researchers with very diverse backgrounds such as mathematical programming optimization theory convex analysis nonlinear analysis nonsmooth analysis linear algebra probability theory variational inequalities game theory economic theory engineering management science equilibrium analysis for example are attracted to this fast growing field of study Such enormous research activity is partially due to the discovery of a rich elegant and deep theory which provides a basis for interesting

existing and potential applications in different disciplines The handbook offers an advanced and broad overview of the current state of the field It contains fourteen chapters written by the leading experts on the respective subject eight on generalized convexity and the remaining six on generalized monotonicity **Generalized Convexity and Related Topics** Igor V. Konnov,Dinh The Luc,Alexander M. Rubinov,2006-11-22 The book contains invited papers by well known experts on a wide range of topics economics variational analysis probability etc closely related to convexity and generalized convexity and refereed contributions of specialists from the world on current research on generalized convexity and applications in particular to optimization economics and operations research **Pseudolinear Functions and Optimization** Shashi Kant Mishra,Balendu Bhooshan Upadhyay,2014-12-18 Pseudolinear Functions and Optimization is the first book to focus exclusively on pseudolinear functions a class of generalized convex functions It discusses the properties characterizations and applications of pseudolinear functions in nonlinear optimization problems The book describes the characterizations of solution sets of various optimiza **Generalized Convexity and Optimization** Alberto Cambini,Laura Martein,2008-10-14 The authors have written a rigorous yet elementary and self contained book to present in a unified framework generalized convex functions The book also includes numerous exercises and two appendices which list the findings consulted

Generalized Convexity, Generalized Monotonicity and Applications Andrew Eberhard,Nicolas Hadjisavvas,D.T. Luc,2006-06-22 In recent years there is a growing interest in generalized convex functions and generalized monotone mappings among the researchers of applied mathematics and other sciences This is due to the fact that mathematical models with these functions are more suitable to describe problems of the real world than models using conventional convex and monotone functions Generalized convexity and monotonicity are now considered as an independent branch of applied mathematics with a wide range of applications in mechanics economics engineering finance and many others The present volume contains 20 full length papers which reflect current theoretical studies of generalized convexity and monotonicity and numerous applications in optimization variational inequalities equilibrium problems etc All these papers were refereed and carefully selected from invited talks and contributed talks that were presented at the 7th International Symposium on Generalized Convexity Monotonicity held in Hanoi Vietnam August 27 31 2002 This series of Symposia is organized by the Working Group on Generalized Convexity WGGC every 3 years and aims to promote and disseminate research on the field The WGGC <http://www.genconv.org> consists of more than 300 researchers coming from 36 countries **Advances in Combinatorial Optimization** Y. M. Sharaiha,1999 **Mathematical Reviews** ,1999 **Generalized Convexity, Generalized Monotonicity, Optimality Conditions, and Duality in Scalar and Vector Optimization** Alberto Cambini,Bal Kishan Dass,Laura Martein,2003 The aim of this volume is to strengthen the interest in generalized convexity generalized monotonicity and related areas and to stimulate new research in these fields by update survey or recent results of known experts covering many important topics such as some new theoretical aspects of generalized convexity and generalized invexity some

applications of generalized monotonicity and pseudomonotonicity to equilibrium problems and to economic and financial problems some applications of abstract convexity some applications of discrete convex analysis to cooperative game theory fractional programming optimality conditions in vector optimization smooth and non smooth semi infinite optimization and a new method for solving multiobjective problems **International Capital Mobility and Asset Demand** W. J. Jansen,1995
 International financial transactions have become less regulated and less costly over the past two decades This study consisting of two parts examines several issues related to this increase in international capital mobility The first part is devoted to the estimation of the correlation of saving and investment which should be zero under capital mobility according to Feldstein and Horioka Questions addressed are What are the implications of the intertemporal budget constraint Should time series analysis or cross section analysis be used The second part of the study focuses on the mean variance portfolio model which is an important benchmark model in financial economics but is strongly rejected in empirical tests Here questions include Can capital controls explain why the mean variance model performs so badly What is the role of adjustment costs **Towards the Borderless Mainport Rotterdam** H. Arjen van Klink,1995 **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 **Supplemento ai Rendiconti del Circolo matematico di Palermo** Circolo matematico di Palermo,2002 *American Book Publishing Record* ,1998
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