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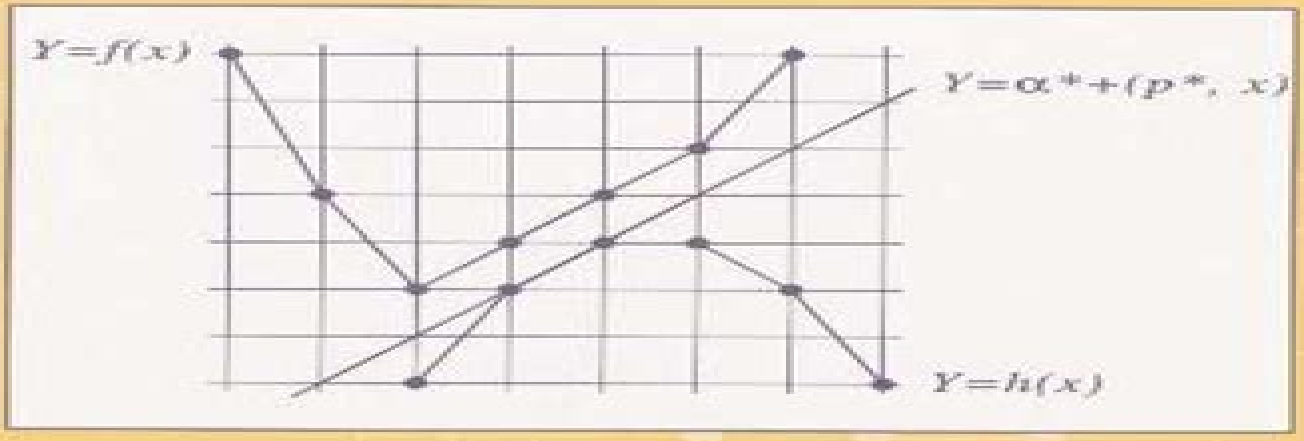

Kazuo Murota

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Discrete Convex Analysis

Jianer Chen,Qilong Feng,Jinhui Xu

Discrete Convex Analysis:

Discrete Convex Analysis Kazuo Murota,2003-01-01 Discrete Convex Analysis is a novel paradigm for discrete optimization that combines the ideas in continuous optimization convex analysis and combinatorial optimization matroid submodular function theory to establish a unified theoretical framework for nonlinear discrete optimization The study of this theory is expanding with the development of efficient algorithms and applications to a number of diverse disciplines like matrix theory operations research and economics This self contained book is designed to provide a novel insight into optimization on discrete structures and should reveal unexpected links among different disciplines It is the first and only English language monograph on the theory and applications of discrete convex analysis Discrete Convex Analysis provides the information that professionals in optimization will need to catch up with this new theoretical development It also presents an unexpected connection between matroid theory and mathematical economics and expounds a deeper connection between matrices and matroids than most standard textbooks *Discrete Convex Analysis* Kazuo Murota,2003 *Discrete Convex Analysis* Kazuo Murota,1996 Abstract This is a survey of the theory of discrete convex analysis that has been developed recently by the author for integer valued functions defined on integer lattice points The theory parallels the ordinary convex analysis covering discrete analogues of the fundamental concepts such as conjugacy subgradients the Fenchel min max duality and separation theorems The technical development is based on matroid theoretic concepts in particular submodular functions and exchange axioms The results extend the relationship investigated in the eighties between convex functions and submodular functions This paper puts stress on conjugacy and duality for discrete convex functions *Discrete Convex Analysis and Its Applications in Operations* Xin Chen,2020 Discrete convexity in particular L natural convexity and M natural convexity provides a critical opening to attack several classical problems in inventory theory as well as many other operations problems that arise from more recent practices for instance appointment scheduling and bike sharing As a powerful framework discrete convex analysis is becoming increasingly popular in the literature This review will survey the landscape of the approach We start by introducing several key concepts namely L natural convexity and M natural convexity and their variants followed by a discussion of some fundamental properties that are most useful for studying operations models We then illustrate various applications of these concepts and properties Examples include network flow problem stochastic inventory control appointment scheduling game theory portfolio contract discrete choice model and bike sharing We focus our discussion on demonstrating how discrete convex analysis can shed new insights on existing problems and or bring about much simpler analyses and algorithm developments than previous methods in the literature We also present several results and analyses that are new to the literature *Discrete convex analysis* Kazuo Murota,1996 Abstract This is a survey of the theory of discrete convex analysis that has been developed recently by the author for integer valued functions defined on integer lattice points The theory parallels the ordinary convex analysis covering discrete analogues of the

fundamental concepts such as conjugacy subgradients the Fenchel min max duality and separation theorems The technical development is based on matroid theoretic concepts in particular submodular functions and exchange axioms The results extend the relationship investigated in the eighties between convex functions and submodular functions This paper puts stress on conjugacy and duality for discrete convex functions **Algorithms in Discrete Convex Analysis** Kazuo Murota,1999 Abstract This is a survey of algorithmic results in the theory of discrete convex analysis for integer valued functions defined on integer lattice points The theory parallels the ordinary convex analysis covering discrete analogues of the fundamental concepts such as conjugacy the Fenchel min max duality and separation theorems The thechnical development is based on matriod theoretic concepts in particular submodular functions and exchange axioms **Recent Developments in Discrete Convex Analysis** ,2008 *Research Trends in Combinatorial Optimization* William J. Cook,László Lovász,Jens Vygen,2008-11-07 The editors and authors dedicate this book to Bernhard Korte on the occasion of his seventieth birthday We the editors are happy about the overwhelming feedback to our initiative to honor him with this book and with a workshop in Bonn on November 3 7 2008 Althoughthiswouldbeareasontolookback wewouldratherliketolook forward and see what are the interesting research directions today This book is written by leading experts in combinatorial optimization All pers were carefully reviewed and eventually twenty three of the invited papers were accepted for this book The breadth of topics is typical for the eld combinatorial optimization builds bridges between areas like combinatorics and graph theory submodular functions and matroids network ows and connectivity approximation algorithms and mat matical programming computational geometry and polyhedral combinatorics All these topics are related and they are all addressed in this book Combi torial optimization is also known for its numerous applications To limit the scope however this book is not primarily about applications although some are mentioned at various places Most papers in this volume are surveys that provide an excellent overview of an activeresearcharea butthisbookalsocontainsmanynewresults Highlightingmany of the currently most interesting research directions in combinatorial optimization we hope that this book constitutes a good basis for future research in these areas **Applications of discrete convex analysis to game theory and mathematical economics** Akihisa Tamura,Jun Wako,2004 Submodular Function Minimization and Maximization in Discrete Convex Analysis ,2008 **Fundamentals in Discrete Convex Analysis** ,2005 **Submodular Functions and Optimization** Satoru Fujishige,2005-07-26 It has widely been recognized that submodular functions play essential roles in efficiently solvable combinatorial optimization problems Since the publication of the 1st edition of this book fifteen years ago submodular functions have been showing further increasing importance in optimization combinatorics discrete mathematics algorithmic computer science and algorithmic economics and there have been made remarkable developments of theory and algorithms in submodular functions The 2nd edition of the book supplements the 1st edition with a lot of remarks and with new two chapters Submodular Function Minimization and Discrete Convex Analysis The present 2nd edition is still a unique

book on submodular functions which is essential to students and researchers interested in combinatorial optimization discrete mathematics and discrete algorithms in the fields of mathematics operations research computer science and economics Self contained exposition of the theory of submodular functions Selected up to date materials substantial to future developments Polyhedral description of Discrete Convex Analysis Full description of submodular function minimization algorithms Effective insertion of figures Useful in applied mathematics operations research computer science and economics

Mathematics for Future Computing and Communications Liao Heng,Bill McColl,2021-12-16 A panorama of new ideas in mathematics that are driving innovation in computing and communications *Matrices and Matroids for Systems Analysis* Kazuo Murota,2009-10-27 A matroid is an abstract mathematical structure that captures combinatorial properties of matrices This book offers a unique introduction to matroid theory emphasizing motivations from matrix theory and applications to systems analysis This book serves also as a comprehensive presentation of the theory and application of mixed matrices developed primarily by the present author in the 1990 s A mixed matrix is a convenient mathematical tool for systems analysis compatible with the physical observation that fixed constants and system parameters are to be distinguished in the description of engineering systems This book will be extremely useful to graduate students and researchers in engineering mathematics and computer science From the reviews The book has been prepared very carefully contains a lot of interesting results and is highly recommended for graduate and postgraduate students Andr s Recski Mathematical Reviews Clippings 2000m 93006 **Theory and Applications of Models of Computation** Jianer Chen,Qilong Feng,Jinhui Xu,2020-10-11 This book constitutes the refereed proceedings of the 16th Annual Conference on Theory and Applications of Models of Computation TAMC 2020 held in Changsha China in October 2020 The 37 full papers were carefully reviewed and selected from 83 submissions The main themes of the selected papers are computability complexity algorithms information theory and their extensions to machine learning theory and foundations of artificial intelligence Some Applications of Convex Analysis to Cooperative Game Theory Juan E.. Martinez-Legaz,J. M. Bilbao,2001 **Convex and Discrete Geometry** Peter M. Gruber,2007-05-17 Convex and Discrete Geometry is an area of mathematics situated between analysis geometry and discrete mathematics with numerous relations to other areas The book gives an overview of major results methods and ideas of convex and discrete geometry and its applications Besides being a graduate level introduction to the field it is a practical source of information and orientation for convex geometers It should also be of use to people working in other areas of mathematics and in the applied fields *Graph Theory and Combinatorial Biology* László Lovász,1999 **Integer Programming and Combinatorial Optimization** ,2004 Generalized Convexity, Generalized Monotonicity, Optimality Conditions, and Duality in Scaler 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

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Discrete Convex Analysis Introduction

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