DISCRETE CONVEX ANALYSIS

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$Y=\alpha^{\circ}+\langle p^{\circ}, x\rangle$

$Y=h(x)$

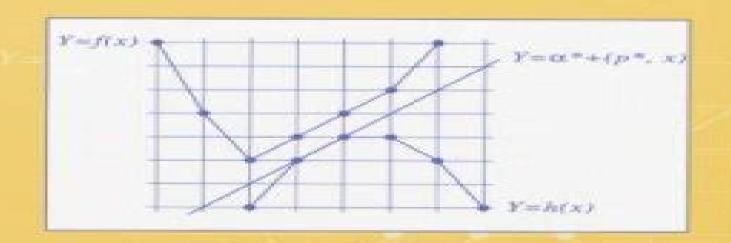## KAZUO MUROTA

Discrete Convex Analysis

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    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* Kazuo Murota,2003 <u>Discrete Convex Analysis</u> 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 <u>Discrete convex analysis</u> 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   **Submodular Function Minimization and Maximization in Discrete Convex Analysis** ,2008   Fundamentals in Discrete Convex Analysis ,2005   *Applications of discrete convex analysis to game theory and mathematical economics* Akihisa Tamura,Jun Wako,2004

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

Polyhedral Split Decomposition of Distances from the Viewpoint of Discrete Convex Analysis Shungo Koichi,Satoru Iwata,2007   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

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