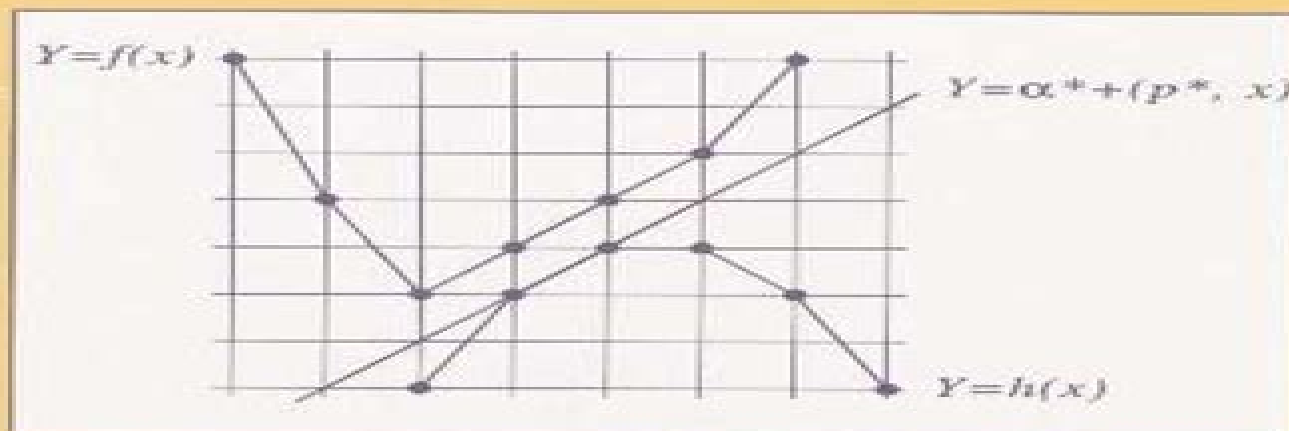


DISCRETE CONVEX ANALYSIS



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Monographs on Discrete Mathematics and Applications

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Liao Heng, Bill McColl



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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**

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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 Although this would be a reason to look back we would rather like to look forward and see what are the interesting research directions today This book is written by leading experts in combinatorial optimization All papers were carefully reviewed and eventually twenty three of the invited papers were accepted for this book The breadth of topics is typical for the field combinatorial optimization builds bridges between areas like combinatorics and graph theory submodular functions and matroids network flows and connectivity approximation algorithms and mathematical programming computational geometry and polyhedral combinatorics All these topics are related and they are all addressed in this book Combinatorial 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 active research area but this book also contains many new results Highlighting many 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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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 Deconvolution of an L2-convex Function Akihisa Tamura,2002 Abstract L2 convex functions which are the convolution of two L convex functions constitute a wide class of discrete convex functions in discrete convex analysis a unified framework of discrete optimization proposed by Murota This paper shows a technical result that any L2 convex function can be represented by the convolution of two L convex functions attaining the infimum in the definition of the convolution This result gives simple proofs for several known results on L2 convex functions

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Table of Contents **Discrete Convex Analysis**

1. Understanding the eBook **Discrete Convex Analysis**
 - The Rise of Digital Reading **Discrete Convex Analysis**
 - Advantages of eBooks Over Traditional Books
2. Identifying **Discrete Convex Analysis**
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an **Discrete Convex Analysis**
 - User-Friendly Interface
4. Exploring eBook Recommendations from **Discrete Convex Analysis**
 - Personalized Recommendations
 - **Discrete Convex Analysis** User Reviews and Ratings
 - **Discrete Convex Analysis** and Bestseller Lists

5. Accessing Discrete Convex Analysis Free and Paid eBooks
 - Discrete Convex Analysis Public Domain eBooks
 - Discrete Convex Analysis eBook Subscription Services
 - Discrete Convex Analysis Budget-Friendly Options
6. Navigating Discrete Convex Analysis eBook Formats
 - ePub, PDF, MOBI, and More
 - Discrete Convex Analysis Compatibility with Devices
 - Discrete Convex Analysis Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Discrete Convex Analysis
 - Highlighting and Note-Taking Discrete Convex Analysis
 - Interactive Elements Discrete Convex Analysis
8. Staying Engaged with Discrete Convex Analysis
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Discrete Convex Analysis
9. Balancing eBooks and Physical Books Discrete Convex Analysis
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Discrete Convex Analysis
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Discrete Convex Analysis
 - Setting Reading Goals Discrete Convex Analysis
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Discrete Convex Analysis
 - Fact-Checking eBook Content of Discrete Convex Analysis
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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