Robust Discrete Optimization and Its Applications

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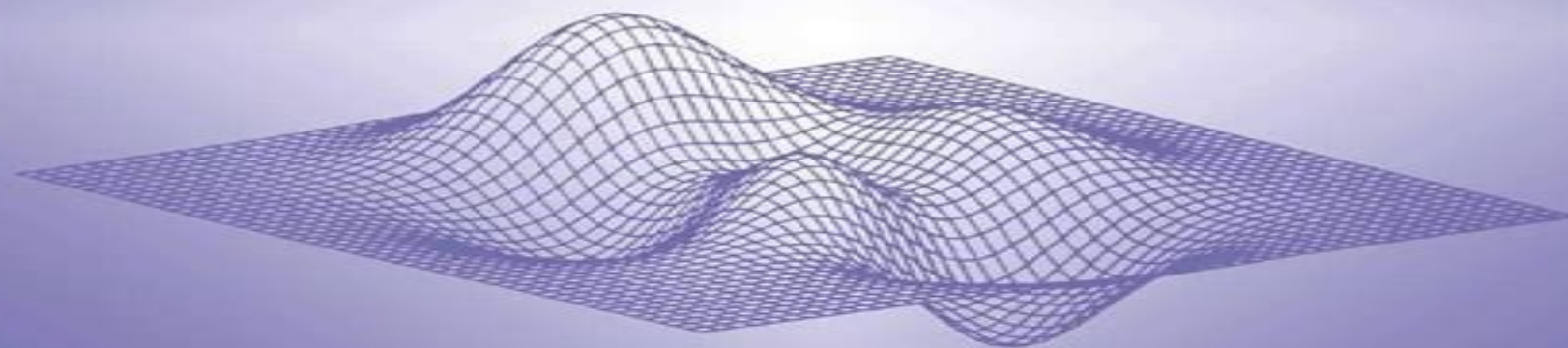
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Gerard Cornuejols,Reha Tütüncü

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 Robust Discrete Optimization and Its Applications Panos Kouvelis,Gang Yu,2013-03-09 This book deals with decision making in environments of significant data un certainty with particular emphasis on operations and production management applications For such environments we suggest the use of the robustness ap proach to decision making which assumes inadequate knowledge of the decision maker about the random state of nature and develops a decision that hedges against the worst contingency that may arise The main motivating factors for a decision maker to use the robustness approach are It does not ignore uncertainty and takes a proactive step in response to the fact that forecasted values of uncertain parameters will not occur in most environments It applies to decisions of unique non repetitive nature which are common in many fast and dynamically changing environments It accounts for the risk averse nature of decision makers and It recognizes that even though decision environments are fraught with data uncertainties decisions are evaluated ex post with the realized data For all of the above reasons robust decisions are dear to the heart of opera tional decision makers This book takes a giant first step in presenting decision support tools and solution methods for generating robust decisions in a variety of interesting application environments Robust Discrete Optimization is a comprehensive mathematical programming framework for robust decision making **Robustness Analysis in Decision Aiding, Optimization, and Analytics** Michael Doumpos,Constantin Zopounidis,Evangelos Grigoroudis,2016-07-12 This book provides a broad coverage of the recent advances in robustness analysis in decision aiding optimization and analytics It offers a comprehensive illustration of the challenges that robustness raises in different operations research and management science OR MS contexts and the methodologies proposed from multiple perspectives Aside from covering recent methodological developments this volume also features applications of robust techniques in engineering and management thus illustrating the robustness issues raised in real world problems and their resolution within advances in OR MS methodologies Robustness analysis seeks to address issues by promoting solutions which are acceptable under a wide set of hypotheses assumptions and estimates In OR MS robustness has been mostly viewed in the context of optimization under uncertainty Several scholars however have emphasized the multiple facets of robustness analysis in a broader OR MS perspective that goes beyond the traditional framework seeking to cover the decision support nature of OR MS methodologies as well As new challenges emerge in a big data era where the information volume speed of flow and complexity increase rapidly and analytics play a fundamental role for strategic and operational decision making at a global level robustness issues such as the ones covered in this book become more relevant than ever for providing sound decision support through more powerful analytic tools Operations Research Proceedings 2021 Norbert Trautmann,Mario Gnägi,2022-08-29 This book gathers a selection of peer reviewed papers presented at the International Conference on Operations Research OR 2021 which was hosted online by the University of Bern from August 31 to September 3 2021 and was jointly organized by the Operations Research Societies of

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Operations Research Proceedings 2024 Lukas Glomb,2025-09-12 This book contains a selection of peer reviewed papers presented at the International Conference on Operations Research OR 2024 held at the Technical University of Munich Germany from September 3 to 6 2024 Over 650 scientists from all over the world attended the OR 2024 in Munich Three plenaries and nine semi plenaries covered theoretical aspects of Operations Research applications and real world practices In addition more than 500 presentations were held over three days in up to 23 parallel sessions Covering a wide range of topics the book highlights cutting edge research and practical applications across various domains of modern operations research It places a special emphasis on the theme Data Learning and Optimization exploring how data driven approaches machine learning techniques and optimization strategies are shaping decision making processes and operational efficiency The contributions in this book reflect the diversity and innovation in the field making it a valuable resource for researchers practitioners and academics alike **Operations Research and Enterprise Systems** Greg H. Parlier,Federico Liberatore,Marc Demange,2019-03-14 This book constitutes revised selected papers from the 7th International Conference on Operations Research and Enterprise Systems ICORES 2018 held in Funchal Madeira Portugal in January 2018 The 12 papers presented in this volume were carefully reviewed and selected from a total of 59 submissions They are organized in topical sections named methodologies and technologies and applications **Operations Research Proceedings 2019** Janis S. Neufeld,Udo Buscher,Rainer Lasch,Dominik Möst,Jörn Schönberger,2020-09-24 This book gathers a selection of peer reviewed papers presented at the International Conference on Operations Research OR 2019 which was held at Technische Universit t Dresden Germany on September 4 6 2019 and was jointly organized by the German Operations Research Society GOR the Austrian Operations Research Society GOR and the Swiss Operational Research Society SOR ASRO More than 600 scientists practitioners and students from mathematics computer science business economics and related fields attended the conference and presented more than 400 papers in plenary presentations parallel topic streams as well as special award sessions The respective papers discuss classical mathematical optimization statistics and simulation techniques These are complemented by computer science methods and by tools for processing data designing and implementing information systems The book also examines recent advances in information technology which allow big data volumes to be processed and enable real time predictive and prescriptive business analytics to drive decisions and actions Lastly it includes problems modeled and treated while taking into account uncertainty risk management behavioral issues etc *Flexibility and Robustness in Scheduling* Jean-Charles Billaut,Aziz Moukrim,Eric Sanlaville,2013-03-01 Scheduling is a broad research area and scheduling problems arise from several application domains production systems logistic computer science etc Solving scheduling problems requires tools of combinatorial optimization exact or approximated algorithms Flexibility is at the frontier between predictive deterministic approaches and reactive or on line approaches The purpose of flexibility is to provide one or more solutions adapted to the context of the application in order to provide the ideal solution This book

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and marketing Finally the interactions of multicriteria analysis with other disciplines are also explored including among others data mining artificial intelligence and evolutionary methods **STACS 2006** Bruno Durand,Wolfgang Thomas,2006-03-01 This book constitutes the refereed proceedings of the 23rd Annual Symposium on Theoretical Aspects of Computer Science held in February 2006 The 54 revised full papers presented together with three invited papers were carefully reviewed and selected from 283 submissions The papers address the whole range of theoretical computer science including algorithms and data structures automata and formal languages complexity theory semantics and logic in computer science **Advances in Information and Communication Technology** Phung Trung Nghia,Vu Duc Thai,Nguyen Thanh Thuy,Van-Nam Huynh,Nguyen Van Huan,2025-03-10 This book provides a comprehensive overview of cutting edge research and innovations in Information and Communication Technology ICT offering new insights into both theoretical foundations and practical applications The book contains two keynote abstracts and 115 best peer reviewed papers selected from the 211 submissions at the 3rd International Conference on Advances in ICT ICTA 2024 which share research results and practical applications in ICT research and education The topics cover all ICT related areas and their contributions to socio economic development focusing on the most advanced technologies such as AI Researchers and practitioners in academia and industry can use the book as a valuable reference for their research activities teaching learning and advancing current technologies The conference is hosted by Hung Vuong University HVU with primary organizing support from Thai Nguyen University of Information and Communication Technology ICTU

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Table of Contents Robust Discrete Optimization And Its Applications

1. Understanding the eBook Robust Discrete Optimization And Its Applications
    - The Rise of Digital Reading Robust Discrete Optimization And Its Applications
    - Advantages of eBooks Over Traditional Books
2. Identifying Robust Discrete Optimization And Its Applications
    - 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 Robust Discrete Optimization And Its Applications
    - User-Friendly Interface
4. Exploring eBook Recommendations from Robust Discrete Optimization And Its Applications
    - Personalized Recommendations
    - Robust Discrete Optimization And Its Applications User Reviews and Ratings
    - Robust Discrete Optimization And Its Applications and Bestseller Lists
5. Accessing Robust Discrete Optimization And Its Applications Free and Paid eBooks
    - Robust Discrete Optimization And Its Applications Public Domain eBooks
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