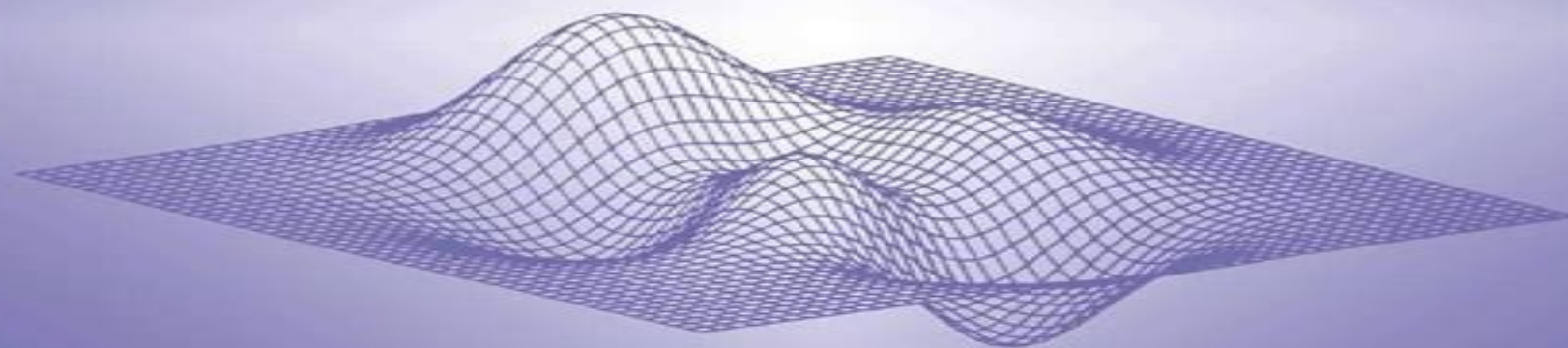


NONCONVEX OPTIMIZATION AND ITS APPLICATIONS

# Robust Discrete Optimization and Its Applications

Panos Kouvelis and Gang Yu



Springer-Science+Business Media, B.V.

# Robust Discrete Optimization And Its Applications

**Gerard Cornuejols,Reha Tütüncü**



## **Robust Discrete Optimization And Its Applications:**

**Robust Discrete Optimization and Its Applications** Panos Kouvelis, Gang Yu, 2013-03-09 This book deals with decision making in environments of significant data uncertainty with particular emphasis on operations and production management applications For such environments we suggest the use of the robustness approach 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 operational 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

**Robust Discrete Optimization and Its Applications** Panagiotis Kouvelis, Gang Yu, University of Texas at Austin. Department of Management Science and Information Systems, 1994

**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 Switzerland SVOR ASRO Germany GOR e V and Austria GOR 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 massive volumes of data to be processed and enable real time predictive and prescriptive business analytics to drive decisions and actions Lastly it presents a selection of problems that are modeled and treated while taking into account uncertainty risk management behavioral issues etc *Operations Research Proceedings 2013* Dennis Huisman, Ilse Louwerse, Albert P.M. Wagelmans, 2014-07-10 This book contains a selection of refereed papers presented at the International Conference on Operations Research OR 2013 which took place at Erasmus University Rotterdam September 3-6 2013 The conference was jointly organized by the German and the Dutch OR Society More than 800 scientists and students from over 50 countries attended OR 2013 and presented more than 600 papers in parallel topical streams as well as special award sessions The theme of the conference and its proceedings is Impact on People Business and Society **Operations Research Methodologies** A. Ravi Ravindran, 2008-11-12 A single source guide to operations research OR techniques this book covers emerging OR methodologies in a clear concise and unified manner Building a bridge between theory and practice it begins with coverage of fundamental models and methods such as linear nonlinear integer and dynamic programming networks simulation queueing inventory **Operations Research and Management Science Handbook** A. Ravi Ravindran, 2016-04-19 Operations Research OR began as an interdisciplinary activity to solve complex military problems during World War II Utilizing principles from mathematics engineering business computer science economics and statistics OR has developed into a full fledged academic discipline with practical application in business industry government and m **Forging Connections between Computational Mathematics and Computational Geometry** Ke Chen, Anton Ravindran, 2016-01-03 This volume presents original research contributed to the 3rd Annual International Conference on Computational Mathematics and Computational Geometry CMCGS 2014 organized and administered by Global Science and Technology Forum GSTF Computational Mathematics and Computational Geometry are closely related subjects but are often studied by separate communities and published in different venues This volume is unique in its combination of these topics After the conference which took place in Singapore selected contributions chosen for this volume and peer reviewed The section on Computational Mathematics contains papers that are concerned with developing new and efficient numerical algorithms for mathematical sciences or scientific computing They also cover analysis of such algorithms to assess accuracy and reliability The parts of this project that are related to Computational Geometry aim to develop effective and efficient algorithms for geometrical applications such as representation and computation of surfaces Other sections in the volume cover Pure Mathematics and

Statistics ranging from partial differential equations to matrix analysis finite difference or finite element methods and function approximation This volume will appeal to advanced students and researchers in these areas      **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 Universität 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 focuses on the integration of flexibility and robustness considerations in the study of scheduling problems After considering both flexibility and robustness it then covers various scheduling problems treated with an emphasis on flexibility or robustness or both

**Optimization Methods in Finance** Gerard Cornuejols,Reha Tütüncü,2006-12-21 Optimization models play an increasingly important role in financial decisions This is the first textbook devoted to explaining how recent advances in optimization models methods and software can be applied to solve problems in computational finance more efficiently and accurately Chapters discussing the theory and efficient solution methods for all major classes of optimization problems alternate with chapters illustrating their use in modeling problems of mathematical finance The reader is guided through topics such as volatility estimation portfolio optimization problems and constructing an index fund using techniques such as nonlinear optimization models quadratic programming formulations and integer programming models respectively The book is based on Master s courses in financial engineering and comes with worked examples exercises and case studies It will be welcomed by applied mathematicians operational researchers and others who work in mathematical and computational finance and who are seeking a text for self learning or for use with courses

**Operations Research and Big Data** Ana Paula Ferreira Dias Barbosa Póvoa,Joao Luis de Miranda,2015-09-11 The development of Operations Research OR requires constant improvements such as the integration of research results with business applications and innovative educational practice The full deployment and commercial exploitation of goods and services generally need the construction of strong synergies between educational institutions and businesses The IO2015 XVII Congress of APDIO aims at strengthening the knowledge triangle in education research and innovation in order to maximize the contribution of OR for sustainable growth the promoting of a knowledge based economy and the smart use of finite resources The IO2015 XVII Congress of APDIO is a privileged meeting point for the promotion and dissemination of OR and related disciplines through the exchange of ideas among teachers researchers students and professionals with different background but all sharing a common desire that is the development of OR

**Operations Research Proceedings 2015** Karl Franz Dörner,Ivana Ljubic,Georg Pflug,Gernot Tragler,2017-03-07 This book gathers a selection of refereed papers presented at the International Conference on Operations Research OR2015 which was held at the University of Vienna Austria September 1 4 2015 Over 900 scientists and students from 50 countries attended this conference and presented more than 600 papers in parallel topic streams as well as special award sessions Though the guiding theme of the conference was Optimal Decision and Big Data this volume also includes papers addressing practically all aspects of modern Operations Research

**Handbook on Project Management and Scheduling Vol. 2** Christoph Schwindt,Jürgen Zimmermann,2015-01-13 Due to the increasing importance of product differentiation and collapsing product life cycles a growing number of value adding activities in the industry and service

sector are organized in projects Projects come in many forms often taking considerable time and consuming a large amount of resources The management and scheduling of projects represents a challenging task and project performance may have a considerable impact on an organization's competitiveness This handbook presents state of the art approaches to project management and scheduling More than sixty contributions written by leading experts in the field provide an authoritative survey of recent developments The book serves as a comprehensive reference both for researchers and project management professionals The handbook consists of two volumes Volume 1 is devoted to single modal and multi modal project scheduling Volume 2 presents multi project problems project scheduling under uncertainty and vagueness managerial approaches and a separate part on applications case studies and information systems *Algorithm Engineering* Lasse Kliemann, Peter Sanders, 2016-11-10 Algorithm Engineering is a methodology for algorithmic research that combines theory with implementation and experimentation in order to obtain better algorithms with high practical impact Traditionally the study of algorithms was dominated by mathematical worst case analysis In Algorithm Engineering algorithms are also implemented and experiments conducted in a systematic way sometimes resembling the experimentation processes known from fields such as biology chemistry or physics This helps in counteracting an otherwise growing gap between theory and practice

**Robust Manufacturing Control** Katja Windt, 2012-12-14 This contributed volume collects research papers presented at the CIRP Sponsored Conference Robust Manufacturing Control Innovative and Interdisciplinary Approaches for Global Networks RoMaC 2012 Jacobs University Bremen Germany June 18th 20th 2012 These research papers present the latest developments and new ideas focusing on robust manufacturing control for global networks Today Global Production Networks i.e. the nexus of interconnected material and information flows through which products and services are manufactured assembled and distributed are confronted with and expected to adapt to sudden and unpredictable large scale changes of important parameters which are occurring more and more frequently event propagation in networks with high degree of interconnectivity which leads to unforeseen fluctuations and non equilibrium states which increasingly characterize daily business These multi scale changes deeply influence logistic target achievement and call for robust planning and control strategies Therefore understanding the cause and effects of multi scale changes in production networks is of major interest New methodological approaches from different science disciplines are promising to contribute to a new level comprehension of network processes Unconventional methods from biology perturbation ecology or auditory display are gaining increasing importance as they are confronted with similar challenges Advancements from the classical disciplines such as mathematics physics and engineering are also becoming of continuing importance *Handbook of Multicriteria Analysis* Constantin Zopounidis, Panos M. Pardalos, 2010-05-25 Multicriteria analysis is a rapidly growing aspect of operations research and management science with numerous practical applications in a wide range of fields This book presents all the recent advances in multicriteria analysis including multicriteria optimization goal programming outranking methods and

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