Springer Series in Operations Research and Financial Engineering

Georg Ch. Pflug Alois Pichler

Multistage Stochastic Optimization



<u>Multistage Stochastic Optimization Springer Series In</u> <u>Operations Research And Financial Engineering</u>

John R. Birge, Vadim Linetsky

Multistage Stochastic Optimization Springer Series In Operations Research And Financial Engineering:

Multistage Stochastic Optimization Georg Ch. Pflug, Alois Pichler, 2014-11-12 Multistage stochastic optimization problems appear in many ways in finance insurance energy production and trading logistics and transportation among other areas They describe decision situations under uncertainty and with a longer planning horizon This book contains a comprehensive treatment of today s state of the art in multistage stochastic optimization It covers the mathematical backgrounds of approximation theory as well as numerous practical algorithms and examples for the generation and handling of scenario trees A special emphasis is put on estimation and bounding of the modeling error using novel distance concepts on time consistency and the role of model ambiguity in the decision process An extensive treatment of examples from electricity production asset liability management and inventory control concludes the book **Modeling with Stochastic Programming** Alan J. King, Stein W. Wallace, 2024-05-31 This is an updated version of what is still the only text to address basic questions about how to model uncertainty in mathematical programming including how to reformulate a deterministic model so that it can be analyzed in a stochastic setting This second edition has important extensions regarding how to represent random phenomena in the models also called scenario generation as well as a new chapter on multi stage models This text would be suitable as a stand alone or supplement for a second course in OR MS or in optimization oriented engineering disciplines where the instructor wants to explain where models come from and what the fundamental modeling issues are The book is easy to read highly illustrated with lots of examples and discussions It will be suitable for graduate students and researchers working in operations research mathematics engineering and related departments where there is interest in learning how to model uncertainty Alan King is a Research Staff Member at IBM s Thomas J Watson Research Center in New York Stein W Wallace is a Professor of Operational Research and head of Center for Shipping and Logistics at NHH Norwegian School of Economics Bergen Norway Convex Stochastic Optimization Teemu Pennanen, Ari-Pekka Perkkiö, 2024-12-18 This book studies a general class of convex stochastic optimization CSO problems that unifies many common problem formulations from operations research financial mathematics and stochastic optimal control We extend the theory of dynamic programming and convex duality to allow for a unified and simplified treatment of various special problem classes found in the literature The extensions allow also for significant generalizations to existing problem formulations Both dynamic programming and duality have played crucial roles in the development of various optimality conditions and numerical techniques for the solution of convex stochastic optimization problems Methods of Nonsmooth Optimization in Stochastic Programming Wim Stefanus van Ackooij, Welington Luis de Oliveira, 2025-05-05 This book presents a comprehensive series of methods in nonsmooth optimization with a particular focus on their application in stochastic programming and dedicated algorithms for decision making under uncertainty Each method is accompanied by rigorous mathematical analysis ensuring a deep understanding of the underlying principles The theoretical discussions included are

essential for comprehending the mechanics of various algorithms and the nature of the solutions they provide whether they are global local stationary or critical The book begins by introducing fundamental tools from set valued analysis optimization and probability theory It then transitions from deterministic to stochastic optimization starting with a thorough discussion of modeling understanding uncertainty and incorporating it into optimization problems Following this foundation the book explores numerical algorithms for nonsmooth optimization covering well known decomposition techniques and algorithms for convex optimization mixed integer convex programming and nonconvex optimization Additionally it introduces numerical algorithms specifically for stochastic programming focusing on stochastic programming with recourse chance constrained optimization and detailed algorithms for both risk neutral and risk averse multistage stochastic programs The book guides readers through the entire process from defining optimization models for practical problems to presenting implementable algorithms that can be applied in practice It is intended for students practitioners and scholars who may be unfamiliar with stochastic programming and nonsmooth optimization The analyses provided are also valuable for practitioners who may not be interested in convergence proofs but wish to understand the nature of the solutions obtained **Analytics, Operations,** and Strategic Decision Making in the Public Sector Evans, Gerald William, Biles, William E., Bae, Ki-Hwan G., 2019-02-15 Analytics for the public sector involves the application of operations research and statistical techniques to solve various problems existing outside of the private sector The use of analytics for the public sector results in more efficient and effective services for the clients and users of these systems Analytics Operations and Strategic Decision Making in the Public Sector is an essential reference source that discusses analytics applications in various public sector organizations and addresses the difficulties associated with the design and operation of these systems including multiple conflicting objectives uncertainties and resulting risk ill structured nature combinatorial design aspects and scale Featuring research on topics such as analytical modeling techniques data mining and statistical analysis this book is ideally designed for academicians educators researchers students and public sector professionals including those in local state and federal governments criminal justice systems healthcare energy and natural resources waste management emergency response and the military Analysis and Capacity Planning of Multi-stage Stochastic Order Fulfilment Systems with Levelled Order Release and Order Deadlines Mohring, Uta, 2022-09-15 Order fulfilment systems are forced to manage a volatile customer demand while meeting customer required short order deadlines To handle these challenges we introduce the Strategy of Levelled Order Release LOR for workload balancing over time The contributions of this work are 1 the workload balancing concept LOR 2 a discrete time Markov chain for performance analysis and 3 an algorithm for capacity planning under performance constraints in order fulfilment systems with LOR <u>Introduction to Stochastic Programming</u> John R. Birge, François Louveaux, 2011-06-15 The aim of stochastic programming is to find optimal decisions in problems which involve uncertain data This field is currently developing rapidly with contributions from many disciplines including operations research

mathematics and probability At the same time it is now being applied in a wide variety of subjects ranging from agriculture to financial planning and from industrial engineering to computer networks This textbook provides a first course in stochastic programming suitable for students with a basic knowledge of linear programming elementary analysis and probability The authors aim to present a broad overview of the main themes and methods of the subject Its prime goal is to help students develop an intuition on how to model uncertainty into mathematical problems what uncertainty changes bring to the decision process and what techniques help to manage uncertainty in solving the problems In this extensively updated new edition there is more material on methods and examples including several new approaches for discrete variables new results on risk measures in modeling and Monte Carlo sampling methods a new chapter on relationships to other methods including approximate dynamic programming robust optimization and online methods The book is highly illustrated with chapter summaries and many examples and exercises Students researchers and practitioners in operations research and the optimization area will find it particularly of interest Review of First Edition The discussion on modeling issues the large number of examples used to illustrate the material and the breadth of the coverage make Introduction to Stochastic Programming an ideal textbook for the area Interfaces 1998 Algorithms -- ESA 2011 Camil Demetrescu, Magnus M. Halldorsson, 2011-08-31 This book constitutes the refereed proceedings of the 19th Annual European Symposium on Algorithms ESA 2011 held in Saarbr cken Germany in September 2011 in the context of the combined conference ALGO 2011 The 67 revised full papers presented were carefully reviewed and selected from 255 initial submissions 55 out of 209 in track design and analysis and 12 out of 46 in track engineering and applications. The papers are organized in topical sections on approximation algorithms computational geometry game theory graph algorithms stable matchings and auctions optimization online algorithms exponential time algorithms parameterized algorithms scheduling data structures graphs and games distributed computing and networking strings and sorting as well as local search and set systems Handbooks in Operations Research and Management Science: Financial Engineering John R. Birge, Vadim Linetsky, 2007-11-16 The remarkable growth of financial markets over the past decades has been accompanied by an equally remarkable explosion in financial engineering the interdisciplinary field focusing on applications of mathematical and statistical modeling and computational technology to problems in the financial services industry The goals of financial engineering research are to develop empirically realistic stochastic models describing dynamics of financial risk variables such as asset prices foreign exchange rates and interest rates and to develop analytical computational and statistical methods and tools to implement the models and employ them to design and evaluate financial products and processes to manage risk and to meet financial goals This handbook describes the latest developments in this rapidly evolving field in the areas of modeling and pricing financial derivatives building models of interest rates and credit risk pricing and hedging in incomplete markets risk management and portfolio optimization Leading researchers in each of these areas provide their perspective on the state of the art in terms of

analysis computation and practical relevance The authors describe essential results to date fundamental methods and tools as well as new views of the existing literature opportunities and challenges for future research Machine Learning, Optimization, and Data Science Giuseppe Nicosia, Varun Ojha, Sven Giesselbach, M. Panos Pardalos, Renato Umeton, 2025-03-03 The three volume set LNAI 15508 15510 constitutes the refereed proceedings of the 10th International Conference on Machine Learning Optimization and Data Science LOD 2024 held in Castiglione della Pescaia Italy during September 22 25 2024 This year in the LOD Proceedings decided to also include the papers of the fourth edition of the Symposium on Artificial Intelligence and Neuroscience ACAIN 2024 The 79 full papers included in this book were carefully reviewed and selected from 127 submissions The LOD 2024 proceedings focus on machine learning deep learning AI computational optimization neuroscience and big data that includes invited talks tutorial talks special sessions industrial tracks demonstrations and oral and poster presentations of refereed papers Stochastic Optimization Methods in Finance and Energy Marida Bertocchi, Giorgio Consigli, Michael A. H. Dempster, 2011-09-15 This volume presents a collection of contributions dedicated to applied problems in the financial and energy sectors that have been formulated and solved in a stochastic optimization framework The invited authors represent a group of scientists and practitioners who cooperated in recent years to facilitate the growing penetration of stochastic programming techniques in real world applications inducing a significant advance over a large spectrum of complex decision problems After the recent widespread liberalization of the energy sector in Europe and the unprecedented growth of energy prices in international commodity markets we have witnessed a significant convergence of strategic decision problems in the energy and financial sectors This has often resulted in common open issues and has induced a remarkable effort by the industrial and scientific communities to facilitate the adoption of advanced analytical and decision tools The main concerns of the financial community over the last decade have suddenly penetrated the energy sector inducing a remarkable scientific and practical effort to address previously unforeseeable management problems Stochastic Optimization Methods in Finance and Energy New Financial Products and Energy Markets Strategies aims to include in a unified framework for the first time an extensive set of contributions related to real world applied problems in finance and energy leading to a common methodological approach and in many cases having similar underlying economic and financial implications Part 1 of the book presents 6 chapters related to financial applications Part 2 presents 7 chapters on energy applications and Part 3 presents 5 chapters devoted to specific theoretical and computational issues Signature Methods in Finance Christian Bayer, Goncalo dos Reis, Blanka Horvath, Harald Oberhauser, 2025-11-07 This Open Access volume offers an accessible entry point into the fast growing field of signature methods in finance It is written for early career researchers and quantitatively minded practitioners quant analysts and applied researchers seeking a clear practical introduction It highlights recent developments and includes coding examples to help readers apply signature methods in practice The advantages of modeling financial markets from a path wise perspective

rather than as a traditional series of returns are increasingly gaining recognition Signature methods provide a parsimonious description of paths of stochastic processes and through the signature kernel open a rich and compelling framework at the interface between machine learning and mathematical finance I have been extraordinarily fortunate to work alongside brilliant collaborators throughout this journey and this book beautifully reflects the richness of that shared contribution for which I am deeply grateful Prof Terry Lyons University of Oxford Imperial College and PI of DataSig This fascinating collection dedicated to Terry Lyons offers invaluable insights into signature methods and their many uses Jim Gatheral Presidential Professor Baruch College Quant of the Year 2021 A timely and important contribution to the fast growing field of signature methods showcasing the theory and applications of these powerful ideas Prof Ben Hambly University of Oxford An impressive book on signatures with articles by the most distinguished researchers in the field A reference from day one Dr Hans Buehler co CEO XTX Markets Quant of the Year 2022 This book provides a masterful exposition and development of signature methods in finance It is concise precise and actionable It will be an excellent source for anyone interested in modern financial engineering techniques Prof Alexander Lipton Global Head of R D ADIA and Founding Member ADIA Lab Quant of the Year 2000 and Buy side Quant of the Year 2021 Handbook of Recent Advances in Commodity and Financial Modeling Giorgio Consigli, Silvana Stefani, Giovanni Zambruno, 2017-09-30 This handbook includes contributions related to optimization pricing and valuation problems risk modeling and decision making problems arising in global financial and commodity markets from the perspective of Operations Research and Management Science The book is structured in three parts emphasizing common methodological approaches arising in the areas of interest Part I Optimization techniques Part II Pricing and Valuation Part III Risk Modeling The book presents to a wide community of Academics and Practitioners a selection of theoretical and applied contributions on topics that have recently attracted increasing interest in commodity and financial markets Within a structure based on the three parts it presents recent state of the art and original works related to The adoption of multi criteria and dynamic optimization approaches in financial and insurance markets in presence of market stress and growing systemic risk Decision paradigms based on behavioral finance or factor based or more classical stochastic optimization techniques applied to portfolio selection problems including new asset classes such as alternative investments Risk measurement methodologies including model risk assessment recently applied to energy spot and future markets and new risk measures recently proposed to evaluate risk reward trade offs in global financial and commodity markets and derivatives portfolio hedging and pricing methods recently put forward in the financial community in the aftermath of the global financial crisis Data Analysis, Machine Learning and Knowledge Discovery Myra Spiliopoulou, Lars Schmidt-Thieme, Ruth Janning, 2013-11-26 Data analysis machine learning and knowledge discovery are research areas at the intersection of computer science artificial intelligence mathematics and statistics. They cover general methods and techniques that can be applied to a vast set of applications such as web and text mining marketing medicine bioinformatics

and business intelligence This volume contains the revised versions of selected papers in the field of data analysis machine learning and knowledge discovery presented during the 36th annual conference of the German Classification Society GfKl The conference was held at the University of Hildesheim Germany in August 2012 Handbook of Risk Management in Energy Production and Trading Raimund M. Kovacevic, Georg Ch. Pflug, Maria Teresa Vespucci, 2013-11-27 This book presents an overview of the risks involved in modern electricity production delivery and trading including technical risk in production transportation and delivery operational risk for the system operators market risks for traders and political and other long term risks in strategic management Using decision making under uncertainty as a methodological background the book is divided into four parts with Part I focusing on energy markets particularly electricity markets Topics include a nontechnical overview of energy markets and their main properties basic price models for energy commodity prices and modeling approaches for electricity price processes Part II looks at optimal decisions in managing energy systems including hydropower dispatch models cutting plane algorithms and approximative dynamic programming hydro thermal production renewable stochastic investments and operational optimization models for natural gas transport decision making in operating electricity networks and investment in extending energy production systems Part III explores pricing including electricity swing options and the pricing of derivatives with volume control Part IV looks at long term and political risks including energy systems under aspects of climate change and catastrophic operational risks particularly risks from terrorist attacks

12th International Symposium on Process Systems Engineering and 25th European Symposium on Computer Aided Process Engineering, 2015-07-14 25th European Symposium on Computer Aided Process Engineering contains the papers presented at the 12th Process Systems Engineering PSE and 25th European Society of Computer Aided Process Engineering ESCAPE Joint Event held in Copenhagen Denmark 31 May 4 June 2015 The purpose of these series is to bring together the international community of researchers and engineers who are interested in computing based methods in process engineering This conference highlights the contributions of the PSE CAPE community towards the sustainability of modern society Contributors from academia and industry establish the core products of PSE CAPE define the new and changing scope of our results and future challenges Plenary and keynote lectures discuss real world challenges globalization energy environment and health and contribute to discussions on the widening scope of PSE CAPE versus the consolidation of the core topics of PSE CAPE Highlights how the Process Systems Engineering Computer Aided Process Engineering community contributes to the sustainability of modern society Presents findings and discussions from both the 12th Process Systems Engineering PSE and 25th European Society of Computer Aided Process Engineering ESCAPE Events Establishes the core products of Process Systems Engineering Computer Aided Process Engineering Defines the future challenges of the Process Systems Engineering Computer Aided Process Engineering community Risk Management in Finance and Logistics Chunhui Xu, Takayuki Shiina, 2018-07-24 This is the first book to introduce the major quantitative tools in risk management

taking financial investments and logistics planning as the background optimization and stochastic programming Contained here are the fundamentals of portfolio selection theory from the point of view of risk control and methods for risk control with new and popular risk measures such as VaR Value at Risk and CVaR Conditional VaR The book also introduces a new theory for risk management in more general investment situations such as flexible investment decisions providing an accessible and comprehensive introduction to the interrelations between these fields of research Basic concepts of stochastic programming are introduced and their applications to risk management in inventory distribution and network design are covered as well Illustrated by carefully chosen examples and supported by extensive data analyses this book is highly recommended to readers who seek an in depth and up to date integrated overview of the ever expanding theoretical and quantitative fields of risk management in financial investment and logistics planning **Stochastic Programming Horand** Gassmann, W. T. Ziemba, 2013 This book shows the breadth and depth of stochastic programming applications All the papers presented here involve optimization over the scenarios that represent possible future outcomes of the uncertainty problems The applications which were presented at the 12th International Conference on Stochastic Programming held in Halifax Nova Scotia in August 2010 span the rich field of uses of these models The finance papers discuss such diverse problems as longevity risk management of individual investors personal financial planning intertemporal surplus management asset management with benchmarks dynamic portfolio management fixed income immunization and racetrack betting The production and logistics papers discuss natural gas infrastructure design farming Atlantic salmon prevention of nuclear smuggling and sawmill planning The energy papers involve electricity production planning hydroelectric reservoir operations and power generation planning for liquid natural gas plants Finally two telecommunication papers discuss mobile network design and frequency assignment problems Approximate Dynamic Programming Warren B. Powell, 2011-10-26 Praise for the First Edition Finally a book devoted to dynamic programming and written using the language of operations research OR This beautiful book fills a gap in the libraries of OR specialists and practitioners Computing Reviews This new edition showcases a focus on modeling and computation for complex classes of approximate dynamic programming problems Understanding approximate dynamic programming ADP is vital in order to develop practical and high quality solutions to complex industrial problems particularly when those problems involve making decisions in the presence of uncertainty Approximate Dynamic Programming Second Edition uniquely integrates four distinct disciplines Markov decision processes mathematical programming simulation and statistics to demonstrate how to successfully approach model and solve a wide range of real life problems using ADP The book continues to bridge the gap between computer science simulation and operations research and now adopts the notation and vocabulary of reinforcement learning as well as stochastic search and simulation optimization The author outlines the essential algorithms that serve as a starting point in the design of practical solutions for real problems The three curses of dimensionality that impact complex problems are introduced and detailed

coverage of implementation challenges is provided The Second Edition also features A new chapter describing four fundamental classes of policies for working with diverse stochastic optimization problems myopic policies look ahead policies policy function approximations and policies based on value function approximations A new chapter on policy search that brings together stochastic search and simulation optimization concepts and introduces a new class of optimal learning strategies Updated coverage of the exploration exploitation problem in ADP now including a recently developed method for doing active learning in the presence of a physical state using the concept of the knowledge gradient A new sequence of chapters describing statistical methods for approximating value functions estimating the value of a fixed policy and value function approximation while searching for optimal policies The presented coverage of ADP emphasizes models and algorithms focusing on related applications and computation while also discussing the theoretical side of the topic that explores proofs of convergence and rate of convergence A related website features an ongoing discussion of the evolving fields of approximation dynamic programming and reinforcement learning along with additional readings software and datasets Requiring only a basic understanding of statistics and probability Approximate Dynamic Programming Second Edition is an excellent book for industrial engineering and operations research courses at the upper undergraduate and graduate levels It also serves as a valuable reference for researchers and professionals who utilize dynamic programming stochastic programming and control theory to solve problems in their everyday work **Optimal Financial Decision** Making under Uncertainty Giorgio Consigli, Daniel Kuhn, Paolo Brandimarte, 2016-10-17 The scope of this volume is primarily to analyze from different methodological perspectives similar valuation and optimization problems arising in financial applications aimed at facilitating a theoretical and computational integration between methods largely regarded as alternatives Increasingly in recent years financial management problems such as strategic asset allocation asset liability management as well as asset pricing problems have been presented in the literature adopting formulation and solution approaches rooted in stochastic programming robust optimization stochastic dynamic programming including approximate SDP methods as well as policy rule optimization heuristic approaches and others. The aim of the volume is to facilitate the comprehension of the modeling and methodological potentials of those methods thus their common assumptions and peculiarities relying on similar financial problems The volume will address different valuation problems common in finance related to asset pricing optimal portfolio management risk measurement risk control and asset liability management The volume features chapters of theoretical and practical relevance clarifying recent advances in the associated applied field from different standpoints relying on similar valuation problems and as mentioned facilitating a mutual and beneficial methodological and theoretical knowledge transfer The distinctive aspects of the volume can be summarized as follows Strong benchmarking philosophy with contributors explicitly asked to underline current limits and desirable developments in their areas Theoretical contributions aimed at advancing the state of the art in the given domain with a clear potential for

applications The inclusion of an algorithmic computational discussion of issues arising on similar valuation problems across different methods Variety of applications rarely is it possible within a single volume to consider and analyze different and possibly competing alternative optimization techniques applied to well identified financial valuation problems Clear definition of the current state of the art in each methodological and applied area to facilitate future research directions

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