Optimal Decisions Under Uncertainty: Methods, Models, and Management

Sengupta, Jatikumar

Optimal Decisions Under Uncertainty Methods Models And Management

Giorgio Consigli,Daniel Kuhn,Paolo Brandimarte

Optimal Decisions Under Uncertainty Methods Models And Management:

Optimal Decisions Under Uncertainty J.K. Sengupta,2012-12-06 Understanding the stochastic enviornment is as much important to the manager as to the economist From production and marketing to financial management a manager has to assess various costs imposed by uncertainty The economist analyzes the role of incomplete and too often imperfect information structures on the optimal decisions made by a firm The need for understanding the role of uncertainty in quantitative decision models both in economics and management science provide the basic motivation of this monograph The stochastic environment is analyzed here in terms of the following specific models of optimization linear and quadratic models linear programming control theory and dynamic programming Uncertainty is introduced here through the para meters the constraints and the objective function and its impact evaluated Specifically recent developments in applied research are emphasized so that they can help the decision maker arrive at a solution which has some desirable charac teristics like robustness stability and cautiousness Mathematical treatment is kept at a fairly elementary level and applied as pects are emphasized much more than theory Moreover an attempt is made to in corporate the economic theory of uncertainty into the stochastic theory of opera tions research Methods of optimal decision rules illustrated he re are applicable in three broad areas a applied economic models in resource allocation and economic planning b operations research models involving portfolio analysis and stochastic linear programming and c systems science models in stochastic control and adaptive behavior Optimal Decisions under Uncertainty J.K. Sengupta,2012-12-06 The theory of optimal decisions in a stochastic environment has seen many new developments in recent years The implications of such theory for empirical and policy applications are several This book attempts to analyze some of the impor tant applied aspects of this theory and its recent developments The stochastic environment is considered here in specific form e g a linear programs LP with parameters subject to a probabilistic mechanism b decision models with risk aversion c resource allocation in a team and d national economic planning The book attempts to provide new research insights into several areas e g a mixed strategy solutions and econometric tests of hypotheses of LP models b the dual problems of efficient estimation and optimal regulation c input output planning under imperfect competition and d linear programs viewed as constrained statistical games Methods of optimal decision rules developed here for quadratic and linear decision problems are applicable in three broad areas a applied economic models in resource allocation planning and team decision b operations research models in management decisions involving portfolio analysis and stochastic programming and c systems science models in stochastic control and adaptive behavior Some results reported here have been published in professional journals be fore and I would like to thank the following journals in particular Inter national Journal of Systems Science Journal of Optimization Theory and Applica tions and Journal of Mathematical Analysis and Applications **Multiple Criteria Decision Methods and Applications** Günter Fandel,Jaap Spronk,2012-12-06 Both the First International Summer School on Multiple Criteria Decision Making

Methods Applications and Software and the present volume of readings could only be realised with assistance and support from many sides We would like to express our gratitude to all those who have contributed to making a success of the first of a hopefully long series of summer schools in this field and to all those who have contribut ed to the present volume First of all we are grateful for the financial means supplied by a long list of sponsors the most important of which are mentioned on the copyright page Next we are grateful to the members of the organising committee Anna Ostanello and Giovanni Zambruno Since this is the first of what will become a series of summer schools the chairman of the organising committee Benedetto Matarazzo will start this volume with a brief account of the school held in Acireale The programme committee consisted of Jean Fichefet Anna Ostanello Bernard Roy Jaap Spronk chairman and Stanley Zionts Their valuable contribu tion is gratefully acknowledged as is the contribution of all the lecturers at the school Of course a school is not only made by its teachers but just as much by its students The primary aim of a school is to teach and to stimulate the students **Stochastic Optimization and Economic Models** Jati Sengupta,2013-03-09 This book presents the main applied aspects of stochas tic optimization in economic models Stochastic processes and control theory are used under optimization to illustrate the various economic implications of optimal decision rules Unlike econometrics which deals with estimation this book emphasizes the decision theoretic basis of uncertainty specified by the stochastic point of view Methods of ap plied stochastic control using stochastic processes have now reached an exciti g phase where several disciplines like systems engineering operations research and natural reso ces interact along with the conventional fields such as mathematical economics finance and control systems Our objective is to present a critical overview of this broad terrain from a multidisciplinary viewpoint In this attempt we have at times stressed viewpoints other than the purely economic one We believe that the economist would find it most profitable to learn from the other disciplines where stochastic optimization has been successfully applied It is in this spirit that we have discussed in some detail the following major areas A Portfolio models in finance B Differential games under uncertainty c Self tuning regulators D Models of renewable resources under uncertainty and ix x PREFACE E Nonparametric methods of efficiency measurement Stochastic processes are now increasingly used in economic models to understand the various adaptive behavior implicit in the formulation of expectation and its application in decision rules which are optimum in some sense *Infinite Programming* Edward J. Anderson,Andrew B. Philpott,2012-12-06 Infinite programming may be defined as the study of mathematical programming problems in which the number of variables and the number of constraints are both possibly infinite Many optimization problems in engineering operations research and economics have natural formul ions as infinite programs For example the problem of Chebyshev approximation can be posed as a linear program with an infinite number of constraints Formally given continuous functions f gl g2 gn on the interval a b we can find the linear combination of the functions gl g2 gn which is the best uniform approximation to f by choosing real numbers a xl x2 x to n minimize a t a b This is an example of a semi infinite program the number of variables is finite and the

number of constraints is infinite An example of an infinite program in which the number of constraints and the number of variables are both infinite is the well known continuous linear program which can be formulated as follows T minimize c t Tx t dt t b t subject to Bx t fo Kx s ds x t 0 t 0 T If x is regarded as a member of some infinite dimensional vector space of functions then this problem is a linear program posed over that space Observe that if the constraint equations are differentiated then this problem takes the form of a linear optimal control problem with state IV variable inequality constraints **Nondifferentiable Optimization: Motivations and Applications** Vladimir F. Demyanov,Diethard Pallaschke,2013-06-29 The International Institute for Applied Systems Analysis IIASA in Laxenburg Austria has been involved in research on nondifferentiable optimization since 1976 IIASA based East West cooperation in this field has been very productive leading to many important theoretical algorithmic and applied results Nondifferentiable optimi zation has now become a recognized and rapidly developing branch of mathematical programming To continue this tradition and to review recent developments in this field IIASA held a Workshop on Nondifferentiable Optimization in Sopron Hungary in September 1964 The aims of the Workshop were 1 To discuss the state of the art of nondifferentiable optimization NDO its origins and motivation 2 To compare various algorithms 3 To evaluate existing mathematical approaches their applications and potential 4 To extend and deepen industrial and other applications of NDO The following topics were considered in separate sessions General motivation for research in NDO nondifferentiability in applied problems nondifferentiable mathematical models Numerical methods for solving nondifferentiable optimization problems numerical experiments comparisons and software Nondifferentiable analysis various generalizations of the concept of subdifferen tials Industrial and other applications This volume contains selected papers presented at the Workshop It is divided into four sections based on the above topics I Concepts in Nonsmooth Analysis II Multicriteria Optimization and Control Theory III Algorithms and Optimization Methods IV Stochastic Programming and Applications We would like to thank the International Institute for Applied Systems Analysis particularly Prof V Kaftanov and Prof A B Kurzhanski for their support inorganiz ing this meeting **Degeneracy Graphs and the Neighbourhood Problem** H.-J. Kruse,2012-12-06 A few years ago nobody would have anticipated that in connection with degeneracy in Linear Programming quite a new field could originate In 1976 a very simple question has been posed in the case an extreme pOint EP of a polytope is degenerate and the task is to find all neighbouring EP s of the degenerate EP is it necessary to determine all basic solutions of the corresponding equalities system associated with the degenerate EP in order to be certain to determine all neighbours of this EP This question implied another one Does there exists a subset of the mentioned set of basic solutions such that it suffices to find such a subset in order to determine all neighbours The first step to solve these questions which are motivated in the first Chapter of this book was to define a graph called degeneracy graph the nodes of which correspond to the basic solutions It turned out that such a graph has some special properties and in order to solve the above questions firstly these properties had to be investigated Also the structure

of degeneracy graphs playes hereby an important role Because the theory of degeneracy graphs was quite new it was necessary to elaborate first a completely new terminology and to define new notions Dr **Dynamic Feature Space Modelling, Filtering and Self-Tuning Control of Stochastic Systems** Pieter W. Otter,2012-12-06 The literature on systems seems to have been growing almost expo nentially during the last decade and one may question whether there is need for another book In the author s view most of the literature on systems is either technical in mathematical sense or technical ifF engineering sense with technical words such as noise filtering etc and not easily accessible to researchers is other fields in particular not to economists econometricians and quantitative researchers in so cial sciences This is unfortunate because achievements in the rather young science of system theory and system engineering are of impor tance for modelling estimation and regulation control problems in other branches of science State space mode iing the concept of ob servability and controllability the mathematical formulations of sta bility the so called canonical forms prediction error e timation optimal control and Kalman filtering are some examples of results of system theory and system engineering which proved to be successful in practice A brief summary of system theoretical concepts is given in Chapter II where an attempt has been made to translate the concepts in to the more familiar language used in econometrics and social sciences by means of examples By interrelating concepts and results from system theory with those from econometrics and social sciences the author has attempted to narrow the gap between the more technical sciences such as engi neering and social sciences and econometrics and to contribute to either side **The Economics of Made-to-Order Production** Thomas R. Gulledge,Norman K. Womer,2012-12-06 The airframe industry is usually recognized as being different from most manufacturing industries These differences which are characterized by the number of units produced and the frequency of design changes have been evident for many years This uniqueness and the corresponding implications for cost estimation became particularly evident during World War II The aircraft industry generally has been considered unique in that it differs from other manufacturing in the quantity of units manufactured and with the frequency with which changes are made during the course of manufacturing operations In mass production industries manufacturing thousands or hundreds of thousands of identical units methods and cost of production tend to remain fairly constant after production has been stabilized whereas in the aircraft industry method improvements are constantly being made and cost is a variable depending on the number of airplanes being manufactured Berghell 1944 These differences coupled with political considerations place unusual demands on cost modelers This has been particularly true in recent years where large cost overruns have generated Congressional demands for better cost estimates Traditionally cost estimators in the airframe industry have used one or more of the following estimating techniques 1 industrial engineering time standards 2 parametric cost estimating models 3 learning curves All of the methods have been used with mixed results in specific situations The general emphasis of all three approaches is cost estimation for planning purposes prior to beginning production although some of the techniques may be

used during the production phase of a program **Capital Market Equilibria** Günter Bamberg,Klaus Spremann,2012-12-06 *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 *Efficiency Analysis by Production Frontiers* Jati Sengupta,2012-12-06 Measuring productive efficiency for nonprofit organizations has posed a great challenge to applied researchers today The problem has many facets and diverse implications for a number of disciplines such as economics applied statistics management science and information theory This monograph discusses four major areas which emphasize the applied economic and econometric aspects of the production frontier analysis A Stochastic frontier theory B Data envelopment analysis C Clustering and estimation theory D Economic and managerial applications Besides containing an up to date survey of the mos t recent developments in the field the monograph presents several new results and theorems from my own research These include but are not limited to the following 1 interface with parametric theory 2 minimax and robust concepts of production frontier 3 game theoretic extension of the Farrell and Johansen models 4 optimal clustering techniques for data envelopment analysis and 5 the dynamic and stochastic generalizations of the efficiency frontier at the micro and macro levels In my research work

in this field I have received great support and inspiration from Professor Abraham Charnes of the University of Texas at Austin who has basically founded the technique of data envelopment analysis developed it and is still expanding it My interactions with him have been most fruitful and productive I am deeply grateful to him Finally I must record my deep appreciation to my wife and two children for their loving and enduring support But for their support this work would not have been completed   Risk Management Harold Schott,1997-11   Stochastic Modeling and Optimization Methods for Critical Infrastructure Protection, Volume 2 Alexei A. Gaivoronski,Pavel S. Knopov,Vladimir I. Norkin,Volodymyr A. Zaslavskyi,2025-04-29 Stochastic Modeling and Optimization Methods for Critical Infrastructure Protection is a thorough exploration of mathematical models and tools that are designed to strengthen critical infrastructures against threats both natural and adversarial Divided into two volumes this first volume examines stochastic modeling across key economic sectors and their interconnections while the second volume focuses on advanced mathematical methods for enhancing infrastructure protection The book covers a range of themes including risk assessment techniques that account for systemic interdependencies within modern technospheres the dynamics of uncertainty instability and system vulnerabilities The book also presents other topics such as cryptographic information protection and Shannon s theory of secret systems alongside solutions arising from optimization game theory and machine learning approaches Featuring research from international collaborations this book covers both theory and applications offering vital insights for advanced risk management curricula It is intended not only for researchers but also educators and professionals in infrastructure protection and stochastic optimization   Decision Processes by Using Bivariate Normal Quantile Pairs N. C. Das,2015-10-07 This book discusses equi quantile values and their use in generating decision alternatives under the twofold complexities of uncertainty and dependence offering scope for surrogating between two alternative portfolios when they are correlated The book begins with a discussion on components of rationality and learning models as indispensable concepts in decision making processes It identifies three fold complexities in such processes uncertainty dependence and dynamism The book is a novel attempt to seek tangible solutions for such decision problems To do so four hundred tables of bi quantile pairs are presented for carefully chosen grids In fact it is a two variable generalization of the inverse normal integral table which is used in obtaining bivariate normal quantile pairs for the given values of probability and correlation When making decisions only two of them have to be taken at a time These tables are essential tools for decision making under risk and dependence and offer scope for delving up to a single step of dynamism The book subsequently addresses averments dealing with applications and advantages The content is useful to empirical scientists and risk oriented decision makers who are often required to make choices on the basis of pairs of variables The book also helps simulators seeking valid confidence intervals for their estimates and particle physicists looking for condensed confidence intervals for Higgs Boson utilizing the Bose Einstein correlation given the magnitude of such correlations Entrepreneurs and investors as well as students of management statistics

economics and econometrics psychology psychometrics and psychographics social sciences geographic information system geology agricultural and veterinary sciences medical sciences and diagnostics and remote sensing will also find the book very useful **6THINTERNATIONAL ENGINEERING AND TECHNOLOGY MANAGEMENT SUMMIT 2024** BAŞKENT ÜNİVERSİTESİ,2024-12-27 The 6th INTERNATIONAL ENGINEERING AND TECHNOLOGY MANAGEMENT SUMMIT ETMS 2024 organized by Ba kent University was held in Ankara T rkiye from October 17 19 2024 This year s theme Engineering and Technology Management in Defense Industry provided a critical platform for discussing the challenges and opportunities in this rapidly evolving field ETMS 2024 brought together researchers professionals and industry leaders to explore topics such as advanced weapon systems surveillance technologies and strategic infrastructure management The summit examined the societal and environmental impacts of defense technologies while fostering innovative strategies to address emerging global security challenges The event featured insightful keynote presentations including Prof Beata Mrugalska Poznan University of Technology Poland who discussed Human Perspective on Sustainable Logistics 4 0 Trends Challenges Methods and Best Practices Prof Dr Tu rul Daim Portland State University USA who explored Policies for Emerging Technologies Prof Dr Markus A Launer Ostfalia University of Applied Sciences Germany who presented on International Technology Management These distinguished speakers alongside other esteemed participants contributed to a vibrant exchange of ideas addressing the evolving role of engineering and technology management in the defense sector We extend our heartfelt gratitude to all contributors including keynote and invited speakers authors session chairs and the organizing committee for their dedication to making ETMS 2024 a resounding success This proceedings book includes the abstracts and extended abstracts presented at the summit reflecting the diverse expertise and innovative approaches shared during the event We hope it serves as a valuable resource for all those interested in advancing the fields of engineering and technology management Modern Optimization Methods for Decision Making Under Risk and Uncertainty Alexei A. Gaivoronski,Pavlo S. Knopov,Volodymyr A. Zaslavskyi,2023-10-06 The book comprises original articles on topical issues of risk theory rational decision making statistical decisions and control of stochastic systems The articles are the outcome of a series international projects involving the leading scholars in the field of modern stochastic optimization and decision making The structure of stochastic optimization solvers is described The solvers in general implement stochastic quasi gradient methods for optimization and identification of complex nonlinear models These models constitute an important methodology for finding optimal decisions under risk and uncertainty While a large part of current approaches towards optimization under uncertainty stems from linear programming LP and often results in large LPs of special structure stochastic quasi gradient methods confront nonlinearities directly without need of linearization This makes them an appropriate tool for solving complex nonlinear problems concurrent optimization and simulation models and equilibrium situations of different types for instance Nash or Stackelberg equilibrium situations The solver finds the equilibrium solution when the optimization model

describes the system with several actors The solver is parallelizable performing several simulation threads in parallel It is capable of solving stochastic optimization problems finding stochastic Nash equilibria and of composite stochastic bilevel problems where each level may require the solution of stochastic optimization problem or finding Nash equilibrium Several complex examples with applications to water resources management energy markets pricing of services on social networks are provided In the case of power system regulator makes decision on the final expansion plan considering the strategic behavior of regulated companies and coordinating the interests of different economic entities Such a plan can be an equilibrium a planned decision where a company cannot increase its expected gain unilaterally *Simulation, Optimization, and Machine Learning for Finance, second edition* Dessislava A. Pachamanova,Frank J. Fabozzi,Francesco A. Fabozzi,2025-09-09 A comprehensive guide to simulation optimization and machine learning for finance covering theoretical foundations practical applications and data driven decision making Simulation Optimization and Machine Learning for Finance offers a comprehensive introduction to the quantitative tools essential for asset management and corporate finance This extensively revised and expanded edition builds upon the foundation of the textbook Simulation and Optimization in Finance integrating the latest advancements in quantitative tools Designed for undergraduates graduate students and professionals seeking to enhance their analytical expertise in finance the book bridges theory with practical application making complex financial concepts more accessible Beginning with a review of foundational finance principles the text progresses to advanced topics in simulation optimization and machine learning demonstrating their relevance in financial decision making Readers gain hands on experience developing financial risk models using these techniques fostering conceptual understanding and practical implementation Provides a structured introduction to probability inferential statistics and data science Explores cutting edge techniques in simulation modeling optimization and machine learning Demonstrates real world asset allocation strategies advanced portfolio risk measures and fixed income portfolio management using quantitative tools Covers factor models and stochastic processes in asset pricing Integrates capital budgeting and real options analysis emphasizing the role of uncertainty and quantitative modeling in long term financial decision making Is suitable for practitioners students and self learners Database and Expert Systems Applications Mohamed Ibrahim,Josef Küng,Norman Revell,2003-05-15 The Database and Expert Systems Applications DEXA conferences have established themselves as a platform for bringing together researchers and practitioners from various backgrounds and all regions of the world to exchange ideas experiences and opinions in a friendly and stimulating environment The papers presented at the conference represent recent developments in the field and important steps towards shaping the future of applied computer science and information systems DEXA covers a broad field all aspects of databases knowledge based systems knowledge management web based systems information systems related technologies and their applications Once again there were a good number of submissions out of 183 papers that were submitted the program committee selected 92 to be presented In

the first year of this new millennium DEXA has come back to the United Kingdom following events in Vienna Berlin Valencia Prague Athens London Zurich Toulouse Vienna and Florence The past decade has seen several revolutionary developments one of which was the explosion of Internet related applications in the areas covered by DEXA developments in which DEXA has played a role and in which DEXA will continue to play a role in its second decade starting with this conference

Statistical Relational Artificial Intelligence in Photovoltaic Power Uncertainty Analysis Xueqian Fu,2025-04-16 Statistical Relational Artificial Intelligence in Photovoltaic Power Uncertainty Analysis addresses uncertainty issues in photovoltaic power generation while also supporting the collaborative enhancement of understanding and applying theory and methods through the integration of models cases and code The book employs StaRAI to address uncertainty analysis and modeling issues at different time scales in photovoltaic power generation including photovoltaic power prediction probabilistic power flow stochastic planning and more Chapters cover uncertainty of PV power generation from short to long time scales including day ahead scheduling 24 hours in advance intraday scheduling minute to hour rolling and grid planning 15 years Other sections study the impact of photovoltaic uncertainty on the power grid offering the most classic cases of probabilistic load flow and PV stochastic planning The theoretical content of this book is not only systematic but supplemented with concrete examples and MATLAB Python codes Its contents will be of interest to all those working on photovoltaic planning power generation power plants and applications of AI including researchers advanced students faculty engineers R D and designers Explores how Statistical Relational Artificial Intelligence StaRAI can be applied to photovoltaic power prediction maintenance and planning Provides a theoretical framework supported by schematic diagrams real examples and code Discusses the potential for groundbreaking AI applications in PV future opportunities and ethical and societal impacts

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