



Production under uncertainty and choice under uncertainty in the emergence of generalized expected utility theory

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Abstract

Interest in the foundations of the theory of choice under uncertainty was stimulated by applications of expected utility theory such as the Sandmo model of production under uncertainty. The development of generalized expected utility models raised the question of whether such models could be used in the analysis of applied problems such as those involving production under uncertainty. Finally, the revival of the state-contingent approach led to the recognition of a fundamental duality between choice problems and production problems.

Keywords Production · Choice · Uncertainty

The field of generalized expected utility theory had its beginnings with the classic paper of Allais (1953), proposing counterexamples to the expected utility (EU) theory of Von Neumann and Morgenstern (1944). Although this paper was well-known, and frequently cited, over the next 3 decades, it was not until the late 1970s that Allais' critique became the basis of a substantial research program. The state-contingent approach to production under uncertainty has had a rather similar history.

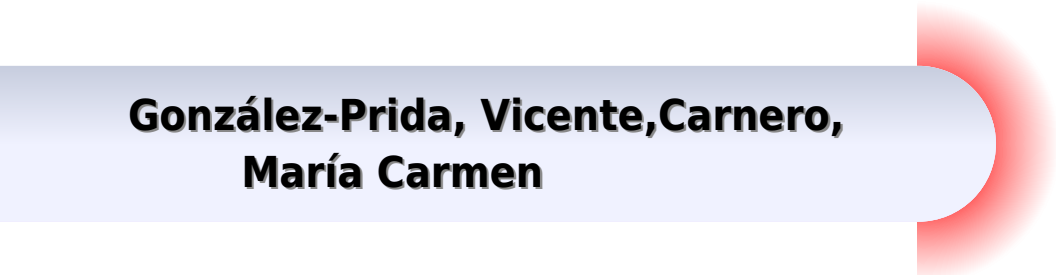
When economists were first embarking on the study of problems involving uncertainty, Arrow (1953) and Debreu (1952) developed the elegantly simple idea of state-contingent commodities. The project of developing a rigorous general equilibrium theory had already led to the notion of differentiating commodities by their time and place of delivery. It was a relatively small step to deal with uncertainty through the notion of state-contingent commodities; that is, commodities whose delivery is contingent on the occurrence of a particular state of nature. Once this connection was made, all the tools developed for a non-stochastic world could be applied almost effortlessly to decision-making under uncertainty. In

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Production And Decision Theory Under Uncertainty

**González-Prida, Vicente, Carnero,
María Carmen**



Production And Decision Theory Under Uncertainty:

Decision Making Under Uncertainty Via Optimization, Modelling, and Analysis Laxminarayan Sahoo, Tapan Senapati, Madhumangal Pal, Ronald R. Yager, 2025-03-02 This book focuses on cutting edge developments in optimal decision making incorporating modeling and optimization for determining renewable energy sources supply chain management and environmental planning under uncertainty It addresses mathematical models of cost effective management policies This book presents the best decision making practices for solving real world challenges This book provides access to an invaluable collection of various decision making issues that scholars and industry practitioners use as a reference The readers are able to understand how decision making problems are formulated under uncertainty and how to use right optimization strategies to fix problems

Decision Making Under Uncertainty in Electricity Markets Antonio J. Conejo, Miguel Carrión, Juan M. Morales, 2010-09-08 Decision Making Under Uncertainty in Electricity Markets provides models and procedures to be used by electricity market agents to make informed decisions under uncertainty These procedures rely on well established stochastic programming models which make them efficient and robust Particularly these techniques allow electricity producers to derive offering strategies for the pool and contracting decisions in the futures market Retailers use these techniques to derive selling prices to clients and energy procurement strategies through the pool the futures market and bilateral contracting Using the proposed models consumers can derive the best energy procurement strategies using the available trading floors The market operator can use the techniques proposed in this book to clear simultaneously energy and reserve markets promoting efficiency and equity The techniques described in this book are of interest for professionals working on energy markets and for graduate students in power engineering applied mathematics applied economics and operations research

Decision Making Under Uncertainty Claude Greengard, Andrzej Ruszczyński, 2012-12-06 In the ideal world major decisions would be made based on complete and reliable information available to the decision maker We live in a world of uncertainties and decisions must be made from information which may be incomplete and may contain uncertainty The key mathematical question addressed in this volume is how to make decision in the presence of quantifiable uncertainty The volume contains articles on model problems of decision making process in the energy and power industry when the available information is noisy and or incomplete The major tools used in studying these problems are mathematical modeling and optimization techniques especially stochastic optimization These articles are meant to provide an insight into this rapidly developing field which lies in the intersection of applied statistics probability operations research and economic theory It is hoped that the present volume will provide entry to newcomers into the field and stimulation for further research

Cellular Manufacturing John X. Wang, 2015-01-14 In today's business world competitiveness defines the industrial leading edge Organizations and businesses of all sizes are adopting Lean manufacturing practices to increase efficiency and address worries about their bottom lines In a detailed review of this staple of Lean manufacturing Cellular Manufacturing

Mitigating Risk and Uncertainty outlines how cellular manufacturing can do just that It demonstrates how this approach can help you and your teams build a variety of products with as little waste as possible The book begins by presenting a survey of the current state of existing methods that can best be used in the handling of the bottleneck machines and parts problem which results from the cellular manufacturing system design It then explores how decision making under risk is used to help the designer select the best cell arrangement in case of probabilistic production volume and maximize the profit imposed by resource capacity constraints The author then presents a method for the system design of a manufacturing cell that aims for profit maximization over a certain period of time He also discusses robust design illustrated with a real application Put simply cellular manufacturing integrates machinery and a small team of staff directed by a team leader so all the work on a product or part can be accomplished in the same cell eliminating resources that do not add value to the product A concise yet unique reference this book incorporates decision making under risk into cellular manufacturing The text makes the link that ties cellular manufacturing to the bottom line It helps you recognize savings opportunities from elimination of downtime between operations decreased material handling costs decreased work in progress inventory and associated costs reduced opportunity for handling errors decreased downtime spent waiting for supplies or materials and reduced losses from defective or obsolete products

What Every Engineer Should Know About Decision Making Under Uncertainty

John X. Wang,2002-07-01 Covering the prediction of outcomes for engineering decisions through regression analysis this succinct and practical reference presents statistical reasoning and interpretational techniques to aid in the decision making process when faced with engineering problems The author emphasizes the use of spreadsheet simulations and decision trees as important tools in the practical application of decision making analyses and models to improve real world engineering operations He offers insight into the realities of high stakes engineering decision making in the investigative and corporate sectors by optimizing engineering decision variables to maximize payoff

Optimisation of Production Under

Uncertainty Svend Rasmussen,2011-07-23 The book provides a short review of the classical approach to planning and decision making under uncertainty It further explains the concept of state contingent goods and it extends earlier work on the state contingent approach to describing production under uncertainty to the problems involved in optimising production under uncertainty

Decision Making under Uncertainty Kerstin Preuschoff,Peter N. C. Mohr,Ming Hsu,2015-06-16 Most decisions in life are based on incomplete information and have uncertain consequences To successfully cope with real life situations the nervous system has to estimate represent and eventually resolve uncertainty at various levels A common tradeoff in such decisions involves those between the magnitude of the expected rewards and the uncertainty of obtaining the rewards For instance a decision maker may choose to forgo the high expected rewards of investing in the stock market and settle instead for the lower expected reward and much less uncertainty of a savings account Little is known about how different forms of uncertainty such as risk or ambiguity are processed and learned about and how they are integrated with

expected rewards and individual preferences throughout the decision making process With this Research Topic we aim to provide a deeper and more detailed understanding of the processes behind decision making under uncertainty **Advanced Models and Tools for Effective Decision Making Under Uncertainty and Risk Contexts** González-Prida, Vicente, Carnero, María Carmen, 2020-09-04 Business industries depend on advanced models and tools that provide an optimal and objective decision making process ultimately guaranteeing improved competitiveness reducing risk and eliminating uncertainty Thanks in part to the digital era of the modern world reducing these conditions has become much more manageable Advanced Models and Tools for Effective Decision Making Under Uncertainty and Risk Contexts provides research exploring the theoretical and practical aspects of effective decision making based not only on mathematical techniques but also on those technological tools that are available nowadays in the Fourth Industrial Revolution Featuring coverage on a broad range of topics such as industrial informatics knowledge management and production planning this book is ideally designed for decision makers researchers engineers academicians and students The Art of Making Decisions Under Uncertainty Charles Yoe, 2025-09-04 Uncertainty is a part of every decision we make from the everyday to the high stakes from personal choices to professional strategy The Art of Making Decisions Under Uncertainty offers a clear practical approach to dealing with the unknown without getting stuck or overwhelmed Rather than treating uncertainty as a barrier this book invites readers to see it as a constant companion something to work with not work against Drawing on proven tools real world examples and a wealth of practical insight it shows how to make thoughtful informed decisions even when information is incomplete priorities are competing and the path forward feels anything but clear This is not a theory heavy treatise It is a textbook guide for real people facing real decisions Grounded in decision science but written for a broad audience it bridges the gap between technical complexity and everyday practicality Whether you're leading a team managing risk shaping policy or simply trying to make better personal choices this book meets you where you are with tools that work language that makes sense and encouragement to move forward with clarity and confidence Inside you'll find straightforward frameworks to help you recognize and manage different types of uncertainty Practical tools and techniques you can use right away to make sound decisions in fast moving or high pressure situations Case studies and examples that bring the concepts to life and show how they apply in work leadership and daily life Fresh perspectives on failure bias and risk helping you not only avoid common pitfalls but turn setbacks into sources of insight If you've ever hesitated at a crossroads second guessed a big decision or wished for more clarity in a world that rarely offers it this book is for you The Art of Making Decisions Under Uncertainty is your companion in making better choices when certainty is out of reach but a good decision is still within your grasp Assembly Line Balancing under Uncertain Task Time and Demand Volatility Yuchen Li, 2022-09-10 This book introduces several mathematical models in assembly line balancing based on stochastic programming and develops exact and heuristic methods to solve them An assembly line system is a manufacturing process in

which parts are added in sequence from workstation to workstation until the final assembly is produced In an assembly line balancing problem tasks belonging to different product models are allocated to workstations according to their processing times and precedence relationships among tasks It incorporates two features uncertain task times and demand volatility separately and simultaneously into the conventional assembly line balancing model A real life case study related to the mask production during the COVID 19 pandemic is presented to illustrate the application of the proposed framework and methodology The book is intended for graduate students who are interested in combinatorial optimizations in manufacturing with uncertain input *Handbook of Production Economics* Subhash C. Ray, Robert G. Chambers, Subal C.

Kumbhakar, 2022-06-02 This three volume handbook includes state of the art surveys in different areas of neoclassical production economics Volumes 1 and 2 cover theoretical and methodological issues only Volume 3 includes surveys of empirical applications in different areas like manufacturing agriculture banking energy and environment and so forth

Decision Making under Uncertainty in Financial Markets Jonas Ekblom, 2018-09-13 This thesis addresses the topic of decision making under uncertainty with particular focus on financial markets The aim of this research is to support improved decisions in practice and related to this to advance our understanding of financial markets Stochastic optimization provides the tools to determine optimal decisions in uncertain environments and the optimality conditions of these models produce insights into how financial markets work To be more concrete a great deal of financial theory is based on optimality conditions derived from stochastic optimization models Therefore an important part of the development of financial theory is to study stochastic optimization models that step by step better capture the essence of reality This is the motivation behind the focus of this thesis which is to study methods that in relation to prevailing models that underlie financial theory allow additional real world complexities to be properly modeled The overall purpose of this thesis is to develop and evaluate stochastic optimization models that support improved decisions under uncertainty on financial markets The research into stochastic optimization in financial literature has traditionally focused on problem formulations that allow closed form or exact numerical solutions typically through the application of dynamic programming or optimal control The focus in this thesis is on two other optimization methods namely stochastic programming and approximate dynamic programming which open up opportunities to study new classes of financial problems More specifically these optimization methods allow additional and important aspects of many real world problems to be captured This thesis contributes with several insights that are relevant for both financial and stochastic optimization literature First we show that the modeling of several real world aspects traditionally not considered in the literature are important components in a model which supports corporate hedging decisions Specifically we document the importance of modeling term premia a rich asset universe and transaction costs Secondly we provide two methodological contributions to the stochastic programming literature by i highlighting the challenges of realizing improved decisions through more stages in stochastic programming models and ii developing an

importance sampling method that can be used to produce high solution quality with few scenarios Finally we design an approximate dynamic programming model that gives close to optimal solutions to the classic and thus far unsolved portfolio choice problem with constant relative risk aversion preferences and transaction costs given many risky assets and a large number of time periods

Combinatorial Optimization Under Uncertainty Ritu Arora, Shalini Arora, Anand Kulkarni, Patrick Siarry, 2023-05-12 This book discusses the basic ideas underlying principles mathematical formulations analysis and applications of the different combinatorial problems under uncertainty and attempts to provide solutions for the same Uncertainty influences the behaviour of the market to a great extent Global pandemics and calamities are other factors which affect and augment unpredictability in the market The intent of this book is to develop mathematical structures for different aspects of allocation problems depicting real life scenarios The novel methods which are incorporated in practical scenarios under uncertain circumstances include the STAR heuristic approach Matrix geometric method Ranking function and Pythagorean fuzzy numbers to name a few Distinct problems which are considered in this book under uncertainty include scheduling cyclic bottleneck assignment problem bilevel transportation problem multi index transportation problem retrieval queuing uncertain matrix games optimal production evaluation of cotton in different soil and water conditions the healthcare sector intuitionistic fuzzy quadratic programming problem and multi objective optimization problem This book may serve as a valuable reference for researchers working in the domain of optimization for solving combinatorial problems under uncertainty The contributions of this book may further help to explore new avenues leading toward multidisciplinary research discussions

Advanced Optimization and Decision-Making Techniques in Textile Manufacturing Anindya Ghosh, Prithwiraj Mal, Abhijit Majumdar, 2019-03-18 Optimization and decision making are integral parts of any manufacturing process and management system The objective of this book is to demonstrate the confluence of theory and applications of various types of multi criteria decision making and optimization techniques with reference to textile manufacturing and management Divided into twelve chapters it discusses various multi criteria decision making methods such as AHP TOPSIS ELECTRE and optimization techniques like linear programming fuzzy linear programming quadratic programming in textile domain Multi objective optimization problems have been dealt with two approaches namely desirability function and evolutionary algorithm Key Features Exclusive title covering textiles and soft computing fields including optimization and decision making Discusses concepts of traditional and non traditional optimization methods with textile examples Explores pertinent single objective and multi objective optimizations Provides MATLAB coding in the Appendix to solve various types of multi criteria decision making and optimization problems Includes examples and case studies related to textile engineering and management

Statistics for Business Derek L. Waller, 2016-12-19 Statistics for Business explains the fundamentals of statistical analysis in a lucid pragmatic way A thorough knowledge of statistics is essential for decision making in all corners of business and management By collecting organizing and analyzing statistical

data you can express what you know benchmark your current situation and estimate future outcomes Based entirely on Microsoft Excel this book covers a spectrum of statistic fundamentals from basic principles to probability sampling hypothesis testing forecasting statistical process control and six sigma management This second edition is packed with features to aid understanding and help ensure that every aspect of your knowledge of statistics is applicable to practice including Icebreakers introducing each chapter that relate statistics to the real world drawn from management and hospitality situations Detailed worked examples in each chapter Over 140 case exercises complete with objective situation requirements and answers A complete glossary of key terminology and formulas mathematical relationships and Excel relationships and functions A brand new companion website containing slides worked out solutions to the case exercises and a test bank coming soon With a clear and accessible style this book makes statistics easier to understand It is ideal for business management tourism and hospitality students who want to learn how to apply statistics to the real world A Hybrid Neutrosophic-Grey Analytic Hierarchy Process Method: Decision-Making Modelling in Uncertain Environments Amin Vafadarnikjoo, Marco Scherz, The analytic hierarchy process AHP is recognised as one of the most commonly applied methods in the multiple attribute decision making MADM literature In the AHP encompassing uncertainty feature necessitates using suitable uncertainty theories since dealing efficiently with uncertainty in subjective judgements is of great importance in real world decision making problems The neutrosophic set NS theory and grey systems are two reliable uncertainty theories which can bring considerable benefits to uncertain decision making The aim of this study is to improve uncertain decision making by incorporating advantages of the NS and grey systems theories with the AHP in investigating sustainability through agility readiness evaluation in large manufacturing plants *Pesticide Policy, Production Risk, and Producer Welfare* John M. Antle, 2015-07-30 The use of pesticides to control agricultural pests both benefits farm production and imposes health and environmental costs on producers and society This title first published in 1988 includes an application of the author's methodology to tomato production in which Antle illuminates the roles that alternative methods of pest management play in producer welfare He also develops a more general empirical framework for studying producer welfare under uncertainty a framework in which production risk sequential decision making and attitudes toward risk are integrated This title will be of interest to students of environmental studies *Managerial Decisions Under Uncertainty* Bruce F. Baird, 1991-01-16 How to improve decision making skills in realistic situations and do it in a reasonably nonmathematical fashion Develops practical techniques for deciding upon the best strategies in a variety of situations Provides methods for reducing complex problems to easily drawn decision diagrams trees supported by real world examples Includes detailed cases that employ the methods described in the text Each chapter contains illustrative examples and exercises **Integrated Design of Multiscale, Multifunctional Materials and Products** David L. McDowell, Jitesh Panchal, Hae-Jin Choi, Carolyn Seepersad, Janet Allen, Farrokh Mistree, 2009-09-30 Integrated Design of Multiscale

Multifunctional Materials and Products is the first of its type to consider not only design of materials but concurrent design of materials and products. In other words, materials are not just selected on the basis of properties but the composition and/or microstructure is designed to satisfy specific ranges of performance requirements. This book presents the motivation for pursuing concurrent design of materials and products, thoroughly discussing the details of multiscale modeling and multilevel robust design and provides details of the design methods, strategies along with selected examples of designing material attributes for specified system performance. It is intended as a monograph to serve as a foundational reference for instructors of courses at the senior and introductory graduate level in departments of materials science and engineering, mechanical engineering, aerospace engineering and civil engineering who are interested in next generation systems based design of materials. First of its kind to consider not only design of materials but concurrent design of materials and products. Treatment of uncertainty via robust design of materials. Integrates the materials by design approach of Olson, Quesada, Tek LLC with the materials selection approach of Ashby, Granta. Distinguishes the processes of concurrent design of materials and products as an overall systems design problem from the field of multiscale modeling. Systematic mathematical algorithms and methods are introduced for robust design of materials rather than ad hoc heuristics. It is oriented towards a true systems approach to design of materials and products.

Project Valuation and Decision Making under Risk and Uncertainty applying Decision Tree Analysis and Monte Carlo Simulation Donald Dibra, 2015-04-28. This work presents the application of the Monte Carlo Simulation method and the Decision Tree Analysis approach when dealing with the economic valuation of projects which are subjected to risks and uncertainties. The Net Present Value of a project is usually used as an investment decision parameter. Using deterministic models to calculate a project's Net Present Value neglects the risky and uncertain nature of real life projects and consequently leads to useless valuation results. Realistic valuation models need to use probability density distributions for the input parameters and certain probabilities for the occurrence of specific events during the life time of a project in combination with the Monte Carlo Simulation method and the Decision Tree Analysis approach. After a short introduction, a brief explanation of the traditional project valuation methods is given. The main focus of this work lies in using the Net Present Value method as a basic valuation tool in conjunction with the Monte Carlo Simulation technique and the Decision Tree Analysis approach to form a comprehensive method for project valuation under risk and uncertainty. The extensive project valuation methodology introduced is applied on two fictional projects: one from the pharmaceutical sector and one from the oil and gas exploration and production industry. Both industries deal with high risks, high uncertainties and high costs but also high rewards. The example from the pharmaceutical industry illustrates very well how the application of the Monte Carlo Simulation and Decision Tree Analysis method results in a well diversified portfolio of new drugs with the highest reward at minimum possible risk. Applying the presented probabilistic project valuation approach on the oil exploration and production project shows how to reduce the risk of losing big.

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