

Optimal Decisions Under Uncertainty: Methods, Models, and Management

Sengupta, Jatikumar

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Optimal Decisions Under Uncertainty Methods Models And Management

Patrick T. Harker

Optimal Decisions Under Uncertainty Methods Models And Management:

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 important 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 before and I would like to thank the following journals in particular International Journal of Systems Science Journal of Optimization Theory and Applications and Journal of Mathematical Analysis and Applications

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 optimization 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 subdifferentials 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 inorganizing this meeting **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 formulations 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, g_1, g_2, g_n on the interval $[a, b]$, we can find the linear combination of the functions g_1, g_2, g_n which is the best uniform approximation to f by choosing real numbers a_1, x_2, \dots, x_n to minimize $\|f - g_1 a_1 - g_2 x_2 - \dots - g_n x_n\|_\infty$. 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: $\begin{aligned} & \text{minimize } c^T t \\ & \text{subject to } \int_a^b t^T B x \, dt \leq 0, \quad \int_a^b t^T K x \, dt \leq 0, \quad x \in \mathbb{R}^n, \quad t \in \mathbb{R}^m. \end{aligned}$ 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.

Convexity and Duality in Optimization Jacob Ponstein, 2012-12-06 The analysis and optimization of convex functions have received a great deal of attention during the last two decades. If we had to choose two key words from these developments we would retain the concept of subdifferential and the duality theory. As is usual in the development of mathematical theories people had since tried to extend the known definitions and properties to new classes of functions including the convex ones. For what concerns the generalization of the notion of subdifferential tremendous achievements have been carried out in the past decade and any modern mathematician who is faced with a nondifferentiable nonconvex function has now a panoply of generalized subdifferentials or derivatives at his disposal. A lot remains to be done in this area especially concerning vector-valued functions, however we think the golden age for these researches is behind us. Duality theory has also fascinated many mathematicians since the underlying mathematical framework has been laid down in the context of Convex Analysis. The various duality schemes which have emerged in the recent years despite of their mathematical elegance have not always proved as powerful as expected. **Preference Modelling** Marc Roubens, Philippe Vincke, 2012-12-06 The following scheme summarizes the different families introduced in this chapter and the connections between them. Family of interval orders \mathcal{F} Row homogeneous Column homogeneous Family of family of interval semi-orders Family of interval orders orders Homogeneous family of interval orders Homogeneous family of semi-orders Family of weak orders 85 5 13

EXAMPLES We let to the reader the verification of the following assertions. Example 1 is a family of interval orders which is neither row homogeneous nor column homogeneous. Example 2 is a column homogeneous family of interval orders which is not row homogeneous but where each interval order is a semiorder. Example 3 is an homogeneous family of interval orders which are not semiorders. Example 4 is an homogeneous family of semi-orders 8 \sqsubseteq $b \sqsubset c$ $a \sqsubset d \sqsubset c$ Example Example 2 8 6 c 5

a 0 a d Example 3 Example 4 5 14 REFERENCES DOIGNON J P Generalizations of interval orders in E Degreef and J Van Buggenhaut eds T ndS in MathematiaaZ PsyahoZogy Elsevier Science Publishers B V North Holland Amsterdam 1984 FISHBURN P C Intransitive indifference with unequal indifference intervals J Math Psyaho 7 1970 144 149 FISHBURN P C Binary choice probabilities on the varieties of stochastic transitivity J Math Psyaho 10 1973 327 352

Location and

Layout Planning W. Domschke,A. Drexl,2013-03-09 [Spatial Price Equilibrium: Advances in Theory, Computation and Application](#) Patrick T. Harker,2012-12-06 The problem of predicting interregional commodity movements and the regional prices of these commodities has intrigued economists geographers and operations researchers for years In 1838 A A Cournot 1838 discussed the equilibrium of trade between New York and Paris and noted how the equilibrium prices depended upon the transport costs Enke 1951 recognized that this problem of predicting interregional flows and regional prices could be formulated as a network problem and in 1952 Paul Samuelson 1952 used the then recent advances in mathematical programming to formalize the spatial price equilibrium problem as a nonlinear optimization problem From this formula tion Takayama and Judge 1964 derived their quadratic programming representation of the spatial price equilibrium problem which they and other scholars then applied to a wide variety of problem contexts Since these early beginnings the spatial price equilibrium problem has been widely studied extended and applied the paper by Harker 1985 reviews many of these results In recent years there has been a growing interest in this problem as evidenced by the numerous publications listed in Harker 1985 The reasons for this renewed interest are many First new applications of this concept have arisen which challenge the theoretical underpinnings of this model The spatial price equilibrium concept is founded on the assumption of perfect or pure competition The applications to energy markets steel markets etc have led scholars to rethink the basic structure of this model

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 exponentially 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 social sciences This is unfortunate because achievements in the rather young science of system theory and system engineering are of importance for modelling estimation and regulation control problems in other branches of science State space modeling the concept of observability and controllability the mathematical formulations of stability the so called canonical forms prediction error estimation 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 engineering and social sciences and econometrics and to contribute to either side **Capital Market Equilibria** Günter Bamberg,Klaus Spremann,2012-12-06 **Plural Rationality and Interactive Decision Processes** M. Grauer,Michael Thompson,Andrzej Wierzbicki,A. P. Wierzbicki,1985 **Decision Making** Sarojini Balachandran,1987 **Input-output Modeling** Anatolii Semenovich Smyshlijaev,1985 **Industrial Marketing** Klaus Backhaus,David T. Wilson,1986 **Current Index to Statistics, Applications, Methods and Theory** ,1992 The Current Index to Statistics CIS is a bibliographic index of publications in statistics probability and related fields **International Books in Print**, 1995 Barbara Hopkinson,[Anonymus AC01401231],1995 **Journal of Economic Literature** ,1985 *Decision Making with Multiple Objectives* Yacov Y. Haimes,Vira Chankong,1985-04 The Sixth International Multiple Criteria Decision Making MCDM Conference is one of a biennial series that serve as a forum for exchange of the latest information and new developments in this rapidly growing field Participants are carefully chosen from among scholars and practitioners so that widely ranging perspectives and disciplines are represented this insures the dissemination of valuable new knowledge to those scholars policy makers and industrial analysts who will best utilize and share it both in developed and in third world countries The Sixth International MCDM Conference was held from June 4 to 8 1984 at Case Western Reserve University Cleveland Ohio The Conference program reflects the evolution of the field from infancy through adolescence to maturity as marked by the progression from single objective modeling and optimization to multiple objective decision making Because the theoreticians practitioners and students who attend these MCDM conferences necessarily have different needs and expectations the program now offers fewer monologues and more panels overview papers and tutorial sessions focusing on case studies and other practical experiences **Risk Management** ,1989 **Database and Expert Systems Applications** ,2000 **U.S. Government Research & Development Reports** ,1970

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