



Stochastic Two Stage Programming

Csaba I. Fábián



Stochastic Two Stage Programming:

Stochastic Two-Stage Programming Karl Frauendorfer, 2012-12-06 Stochastic Programming offers models and methods for decision problems where some of the data are uncertain. These models have features and structural properties which are preferably exploited by SP methods within the solution process. This work contributes to the methodology for two stage models. In these models the objective function is given as an integral whose integrand depends on a random vector on its probability measure and on a decision. The main results of this work have been derived with the intention to ease these difficulties. After investigating duality relations for convex optimization problems with supply demand and prices being treated as parameters a stability criterion is stated and proves subdifferentiability of the value function. This criterion is employed for proving the existence of bilinear functions which minorize and majorize the integrand. Additionally these minorants and majorants support the integrand on generalized barycenters of simplicial faces of specially shaped polytopes and amount to an approach which is denoted barycentric approximation scheme.

Stochastic Programming V.V. Kalashnikov, 1977-06-30 This book is devoted to the problems of stochastic or probabilistic programming. The author took as his basis the specialized lectures which he delivered to the graduates from the economic cybernetics department of Leningrad University beginning in 1967. Since 1971 the author has delivered a specialized course on Stochastic Programming to the graduates from the faculty of applied mathematics management processes at Leningrad University. The present monograph consists of seven chapters. In Chapter I which is of an introductory character consideration is given to the problems of uncertainty and probability used for modelling complicated systems. Fundamental indications for the classification of stochastic programming problems are given. Chapter II is devoted to the analysis of various models of chance constrained stochastic programming problems. Examples of technological and applied economic problems of management with chance constraints are given. In Chapter III two stage stochastic programming problems are investigated various models are given and these models are qualitatively analyzed. In the conclusion of the chapter consideration is given to the transport problem with random data, the problem of the determination of production volume and the problem of planning the flights of aircraft as two stage stochastic programming problems. Multi stage stochastic programming problems are investigated in Chapter IV. The dependencies between prior and posterior decision rules and decision distributions are given. Dual problems are investigated.

Introduction to Stochastic Programming John Birge, François Louveaux, 2000-02-02 This rapidly developing field encompasses many disciplines including operations research, mathematics and probability. Conversely it is 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 present a broad overview of the main themes and methods of the subject thus helping students develop an intuition for 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 The early chapters introduce some worked examples of stochastic programming demonstrate how a stochastic model is formally built develop the properties of stochastic programs and the basic solution techniques used to solve them The book then goes on to cover approximation and sampling techniques and is rounded off by an in depth case study A well paced and wide ranging introduction to this subject *Applications of Stochastic Programming* Stein W. Wallace, William T. Ziemba, 2005-06-01

Consisting of two parts this book presents papers describing publicly available stochastic programming systems that are operational It presents a diverse collection of application papers in areas such as production supply chain and scheduling gaming environmental and pollution control financial modeling telecommunications and electricity **Stochastic Linear Programming** P. Kall, 2012-12-06 Today many economists engineers and mathematicians are familiar with linear programming and are able to apply it This is owing to the following facts during the last 25 years efficient methods have been developed at the same time sufficient computer capacity became available finally in many different fields linear programs have turned out to be appropriate models for solving practical problems However to apply the theory and the methods of linear programming it is required that the data determining a linear program be fixed known numbers This condition is not fulfilled in many practical situations e g when the data are demands technological coefficients available capacities cost rates and so on It may happen that such data are random variables In this case it seems to be common practice to replace these random variables by their mean values and solve the resulting linear program By 1960 various authors had already recognized that this approach is unsound between 1955 and 1960 there were such papers as Linear Programming under Uncertainty Stochastic Linear Programming with Applications to Agricultural Economics Chance Constrained Programming Inequalities for Stochastic Linear Programming Problems and An Approach to Linear Programming under Uncertainty

Two-Stage Stochastic Linear Programming With Recourse DAVID T. MILLS, 2025-05-22 The LP recourse problem applies to two stage optimization problems where uncertainty in resource availability of the second stage hinders informed decision making The recourse function affords a way to compensate later for an error in prediction now The literature provides a rich body of work on the optimization of such problems but little research has been accomplished regarding the characterization of the surface in the local region of optimality in particular sensitivity analysis A decision maker faced with considerations other than the modeled objective function must be presented with a way to estimate the impact of operating at non optimal decision variable values This work develops and demonstrates a technique for characterizing the surface using response surface methodology Specifically the flexibility and utility of RSM techniques applied to this class of problems is demonstrated and a methodology for characterizing the surface in the local region using a low order polynomial is developed This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it This work was reproduced from the original artifact and remains as true to the original work as

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Encyclopedia of Optimization Christodoulos A. Floudas, Panos M. Pardalos, 2008-09-04 The goal of the Encyclopedia of Optimization is to introduce the reader to a complete set of topics that show the spectrum of research the richness of ideas and the breadth of applications that has come from this field The second edition builds on the success of the former edition with more than 150 completely new entries designed to ensure that the reference addresses recent areas where optimization theories and techniques have advanced Particularly heavy attention resulted in health science and transportation with entries such as Algorithms for Genomics Optimization and Radiotherapy Treatment Design and Crew Scheduling

Advanced Optimization for Process Systems Engineering Ignacio E. Grossmann, 2021-03-25 A unique text covering basic and advanced concepts of optimization theory and methods for process systems engineers With examples illustrating key concepts and algorithms and exercises involving theoretical derivations numerical problems and modeling systems it is ideal for single semester graduate courses in process systems engineering

Stochastic Linear Programming Algorithms Janos Mayer, 1998-02-25 A computationally oriented comparison of solution algorithms for two stage and jointly chance constrained stochastic linear programming problems this is the first book to present comparative computational results with several major stochastic programming solution approaches The following methods are considered regularized decomposition stochastic decomposition and successive discrete approximation methods for two stage problems cutting plane methods and a reduced gradient method for jointly chance constrained problems The first part of the book introduces the algorithms including a unified approach to decomposition methods and their regularized counterparts The second part addresses computer implementation of the methods describes a testing environment based on a model management system and presents comparative computational results with the various algorithms Emphasis is on the computational behavior of the algorithms

System Modeling and Optimization F. Ceragioli, A. Dontchev, H. Furuta, K. Marti, L. Pandolfi, 2006-06-07 We publish in this volume the plenary talks and a selection of the papers on numerics optimization and their applications presented at the 22nd Conference on System Modeling and Optimization held at the Politecnico di Torino in July 2005 The conference has been organized by the Mathematical Department of the Politecnico di Torino IFIP is a multinational federation of professional and technical organizations concerned with information processes It was established in 1959 under

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Encyclopedia of Operations Research and Management Science Saul I. Gass, Carl M. Harris, 2001 Audience Anyone concerned with the science techniques and ideas of how decisions are made BOOK JACKET

Stochastic Programming, Algorithms and Models Julia L. Hingle, S. Sen, 1996 Decision Making with Dominance Constraints in Two-Stage Stochastic Integer Programming Uwe Gotzes, 2009-09-30 Uwe Gotzes analyzes an approach to account for risk aversion in two stage models based upon partial orders on the set of real random variables He illustrates the superiority of the proposed decomposition method over standard solvers for example with numerical experiments with instances from energy investment

Stochastic Decomposition Julia L. Hingle, Suvrajeet Sen, 1996-02-29 This book summarizes developments related to a class of methods called Stochastic Decomposition SD algorithms which represent an important shift in the design of optimization algorithms Unlike traditional deterministic algorithms SD combines sampling approaches from the statistical literature with traditional mathematical programming constructs e g decomposition cutting planes etc This marriage of two highly computationally oriented disciplines leads to a line of work that is most definitely driven by computational considerations Furthermore the use of sampled data in SD makes it extremely flexible in its ability to accommodate various representations of uncertainty including situations in which outcomes scenarios can only be generated by an algorithm simulation The authors report computational results with some of the largest stochastic programs arising in applications These results mathematical as well as computational are the tip of the iceberg Further research will uncover extensions of SD to a wider class of problems Audience Researchers in mathematical optimization including those working in telecommunications electric power generation transportation planning airlines and production systems Also suitable as a text for an advanced course in stochastic optimization

Two-Stage Stochastic Linear Programming with Recourse David Mills, 1999-03-01 The LP recourse problem applies to two stage optimization problems where uncertainty in resource availability of the second stage hinders informed decision making The recourse function affords a way to compensate later for an error in prediction now The literature provides a rich body of work on the optimization of such problems but little research has been accomplished regarding the characterization of the surface in the local region of optimality in particular sensitivity analysis A decision maker faced with considerations other than the modeled objective function must be presented with a way to estimate the impact of operating at non optimal decision variable values This work develops and demonstrates

a technique for characterizing the surface using response surface methodology Specifically the flexibility and utility of RSM techniques applied to this class of problems is demonstrated and a methodology for characterizing the surface in the local region using a low order polynomial is developed Research in Stochastic Programming John R. Birge,2001 **Modeling with Stochastic Programming** Alan J. King,Stein W. Wallace,2012-06-19 While there are several texts on how to solve and analyze stochastic programs this is the first text to address basic questions about how to model uncertainty and how to reformulate a deterministic model so that it can be analyzed in a stochastic setting 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 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 at Lancaster University Management School in England **Adapting an Approximate Level Method to the Two-stage Stochastic Programming Problem** Csaba I. Fábián,2001 **Stochastic Programming: Applications In Finance, Energy, Planning And Logistics** Horand I Gassmann,William T Ziemba,2012-11-28 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 a *Intelligent Decision Technologies* Junzo Watada,Toyohide Watanabe,Gloria Phillips-Wren,Robert J. Howlett,Lakhmi C Jain,2012-05-20 The Intelligent Decision Technologies IDT International Conference encourages an interchange of research on intelligent systems and intelligent technologies that enhance or improve decision making The focus of IDT is interdisciplinary and includes research on all aspects of intelligent decision technologies from fundamental development to real applications IDT has the potential to expand their support of decision making in such areas as finance accounting marketing healthcare medical and diagnostic systems military decisions production and operation networks traffic management crisis response human machine interfaces financial and stock market

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