

Yu. Ermoliev · R. J-B Wets (Eds.)

Numerical Techniques for Stochastic Optimization



Springer-Verlag

Numerical Techniques For Stochastic Optimization

Kurt Marti



Numerical Techniques For Stochastic Optimization:

Numerical Techniques for Stochastic Optimization Илья́ Микха́йлович Ермо́лов, Roger J.-B. Wets, 1988

Numerical Techniques for Stochastic Optimization Yuri Ermoliev, Roger J.-B. Wets, 1988 Rapid changes in today's environment emphasize the need for models and methods capable of dealing with the uncertainty inherent in virtually all systems related to economics meteorology demography ecology etc Systems involving interactions between man nature and technology are subject to disturbances which may be unlike anything which has been experienced in the past In the technological revolution increases uncertainty as each new stage particular perturbs existing knowledge of structures limitations and constraints At the same time many systems are often too complex to allow for precise measurement of the parameters or the state of the system Uncertainty nonstationarity disequilibrium are pervasive characteristics of most modern systems In order to manage such situations or to survive in such an environment we must develop systems which can facilitate our response to uncertainty and changing conditions In our individual behavior we often follow guidelines that are conditioned by the need to be prepared for all likely eventualities insurance wearing seat belts savings versus investments annual medical check ups even keeping an umbrella at the office etc One can identify two major types of mechanisms the short term adaptive adjustments defensive driving marketing inventory control etc that are made after making some observations of the system's parameters and the long term anticipative actions engineering design policy setting allocation of resources investment strategies etc

Numerical Techniques for Stochastic Optimization Problems Yuri Ermoliev, Roger J.-B. Wets, 1984

Stochastic Programming Kurt Marti, Peter Kall, 1995-04-06 Proceedings of the 2nd GAMM IFIP Workshop on Stochastic Optimization Numerical Methods and Technical Applications held at the Federal Armed Forces University Munich Neubiberg München Germany June 15-17 1993

Stochastic Programming Kurt Marti, Peter Kall, 2013-12-14 In order to obtain more reliable optimal solutions of concrete technical economic problems e.g. optimal design problems the often known stochastic variations of many technical economic parameters have to be taken into account already in the planning phase Hence ordinary mathematical programs have to be replaced by appropriate stochastic programs New theoretical insight into several branches of reliability oriented optimization of stochastic systems new computational approaches and technical economic applications of stochastic programming methods can be found in this volume

Stochastic Optimization Kurt Marti, 2012-12-06 This volume includes a selection of refereed papers presented at the GAMM IFIP Workshop on Stochastic Optimization Numerical Methods and Technical Applications held at the Federal Armed Forces University Munich May 29-31 1990 The objective of this meeting was to bring together scientists from Stochastic Programming and from those Engineering areas where Mathematical Programming models are common tools as e.g. Optimal Structural Design Power Dispatch Acid Rain Management etc The first theoretical part includes the papers by S.D. Flam H. Niederreiter E. Poechinger and R. Schultz The second part on methods and applications contains the articles by N. Baba N.

Grwe and W Roemisch J Mayer E A Mc Bean and A Vasarhelyi **Stochastic Optimization Techniques** Kurt Marti,2002
Optimization problems arising in practice mostly contain several random parameters Hence in order to get robust optimal solutions with respect to random parameter variations the available statistical information about the random data should be considered already at the planning phase Thus the original problem with random coefficients must be replaced by an appropriate deterministic substitute problem This proceedings volume of the 4th GAMM IFIP Workshop on Stochastic Optimization Numerical Methods and Technical Applications held June 27 29 2000 at the Federal Armed Forces University Munich Neubiberg Munich contains new methods for the approximation and numerical solution of deterministic substitute problems especially the handling of mean value and probability functions as objective and or constraint functions Moreover many concrete applications from engineering and operations research can be found in this book **Stochastic**

Optimization Techniques Kurt Marti,2001-12-14 Optimization problems arising in practice mostly contain several random parameters Hence in order to get robust optimal solutions with respect to random parameter variations the available statistical information about the random data should be considered already at the planning phase Thus the original problem with random coefficients must be replaced by an appropriate deterministic substitute problem This proceedings volume of the 4th GAMM IFIP Workshop on Stochastic Optimization Numerical Methods and Technical Applications held June 27 29 2000 at the Federal Armed Forces University Munich Neubiberg Munich contains new methods for the approximation and numerical solution of deterministic substitute problems especially the handling of mean value and probability functions as objective and or constraint functions Moreover many concrete applications from engineering and operations research can be found in this book **Coping with Uncertainty** Kurt Marti,Yuri Ermoliev,Marek Makowski,Georg Pflug,2006-11-23

Ongoing global changes pose fundamentally new scientific problems requiring new concepts and tools A key issue concerns a vast variety of practically irreducible uncertainties which challenge traditional models and require new concepts and analytical tools Uncertainty can dominate as in the climate change debates Increasing the resolution of models does not always yield sufficient certainty This book presents much needed new tools for modeling and management of uncertainty

Numerical Methods for Stochastic Optimization Song Miao,1995

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