
OPTIMIZATION OF STOCHASTIC MODELS

The Interface Between Simulation
and Optimization

Georg Ch. Pflug



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Georg Ch Pflug



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Optimization of Stochastic Models Georg Ch. Pflug, 2012-12-06 Stochastic models are everywhere In manufacturing queuing models are used for modeling production processes realistic inventory models are stochastic in nature Stochastic models are considered in transportation and communication Marketing models use stochastic descriptions of the demands and buyer s behaviors In finance market prices and exchange rates are assumed to be certain stochastic processes and insurance claims appear at random times with random amounts To each decision problem a cost function is associated Costs may be direct or indirect like loss of time quality deterioration loss in production or dissatisfaction of customers In decision making under uncertainty the goal is to minimize the expected costs However in practically all realistic models the calculation of the expected costs is impossible due to the model complexity Simulation is the only practicable way of getting insight into such models Thus the problem of optimal decisions can be seen as getting simulation and optimization effectively combined The field is quite new and yet the number of publications is enormous This book does not even try to touch all work done in this area Instead many concepts are presented and treated with mathematical rigor and necessary conditions for the correctness of various approaches are stated Optimization of Stochastic Models The Interface Between Simulation and Optimization is suitable as a text for a graduate level course on Stochastic Models or as a secondary text for a graduate level course in Operations Research

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Simulation-Based Optimization Abhijit Gosavi, 2003-06-30 Simulation Based Optimization Parametric Optimization Techniques and Reinforcement Learning introduces the evolving area of simulation based

optimization The book's objective is two fold 1 It examines the mathematical governing principles of simulation based optimization thereby providing the reader with the ability to model relevant real life problems using these techniques 2 It outlines the computational technology underlying these methods Taken together these two aspects demonstrate that the mathematical and computational methods discussed in this book do work Broadly speaking the book has two parts 1 parametric static optimization and 2 control dynamic optimization Some of the book's special features are An accessible introduction to reinforcement learning and parametric optimization techniques A step by step description of several algorithms of simulation based optimization A clear and simple introduction to the methodology of neural networks A gentle introduction to convergence analysis of some of the methods enumerated above Computer programs for many algorithms of simulation based optimization

Numerical Methods in Finance and Economics Paolo Brandimarte, 2013-06-06 A state of the art introduction to the powerful mathematical and statistical tools used in the field of finance The use of mathematical models and numerical techniques is a practice employed by a growing number of applied mathematicians working on applications in finance Reflecting this development Numerical Methods in Finance and Economics A MATLAB Based Introduction Second Edition bridges the gap between financial theory and computational practice while showing readers how to utilize MATLAB the powerful numerical computing environment for financial applications The author provides an essential foundation in finance and numerical analysis in addition to background material for students from both engineering and economics perspectives A wide range of topics is covered including standard numerical analysis methods Monte Carlo methods to simulate systems affected by significant uncertainty and optimization methods to find an optimal set of decisions Among this book's most outstanding features is the integration of MATLAB which helps students and practitioners solve relevant problems in finance such as portfolio management and derivatives pricing This tutorial is useful in connecting theory with practice in the application of classical numerical methods and advanced methods while illustrating underlying algorithmic concepts in concrete terms Newly featured in the Second Edition In depth treatment of Monte Carlo methods with due attention paid to variance reduction strategies New appendix on AMPL in order to better illustrate the optimization models in Chapters 11 and 12 New chapter on binomial and trinomial lattices Additional treatment of partial differential equations with two space dimensions Expanded treatment within the chapter on financial theory to provide a more thorough background for engineers not familiar with finance New coverage of advanced optimization methods and applications later in the text Numerical Methods in Finance and Economics A MATLAB Based Introduction Second Edition presents basic treatments and more specialized literature and it also uses algebraic languages such as AMPL to connect the pencil and paper statement of an optimization model with its solution by a software library Offering computational practice in both financial engineering and economics fields this book equips practitioners with the necessary techniques to measure and manage risk

Identification and Control Ricardo S. Sánchez-Peña, Joseba Quevedo Casín, Vicenç Puig Cayuela, 2007-06-28

This book meets head on the difficulty of making practical use of new systems theory presenting a selection of varied applications together with relevant theory It shows how workable identification and control solutions can be derived by adapting and extrapolating from the theory Each chapter has a common structure a brief presentation of theory the description of a particular application experimental results and a section highlighting explaining and laying out solutions to the discrepancy between the theoretical and the practical *Handbook of Computational Statistics* James E.

Gentle,Wolfgang Karl Härdle,Yuichi Mori,2012-07-06 The Handbook of Computational Statistics Concepts and Methods second edition is a revision of the first edition published in 2004 and contains additional comments and updated information on the existing chapters as well as three new chapters addressing recent work in the field of computational statistics This new edition is divided into 4 parts in the same way as the first edition It begins with How Computational Statistics became the backbone of modern data science Ch 1 an overview of the field of Computational Statistics how it emerged as a separate discipline and how its own development mirrored that of hardware and software including a discussion of current active research The second part Chs 2 15 presents several topics in the supporting field of statistical computing Emphasis is placed on the need for fast and accurate numerical algorithms and some of the basic methodologies for transformation database handling high dimensional data and graphics treatment are discussed The third part Chs 16 33 focuses on statistical methodology Special attention is given to smoothing iterative procedures simulation and visualization of multivariate data Lastly a set of selected applications Chs 34 38 like Bioinformatics Medical Imaging Finance Econometrics and Network Intrusion Detection highlight the usefulness of computational statistics in real world applications **Healthcare Analytics**

Hui Yang,Eva K. Lee,2016-10-13 Features of statistical and operational research methods and tools being used to improve the healthcare industry With a focus on cutting edge approaches to the quickly growing field of healthcare Healthcare Analytics From Data to Knowledge to Healthcare Improvement provides an integrated and comprehensive treatment on recent research advancements in data driven healthcare analytics in an effort to provide more personalized and smarter healthcare services Emphasizing data and healthcare analytics from an operational management and statistical perspective the book details how analytical methods and tools can be utilized to enhance healthcare quality and operational efficiency Organized into two main sections Part I features biomedical and health informatics and specifically addresses the analytics of genomic and proteomic data physiological signals from patient monitoring systems data uncertainty in clinical laboratory tests predictive modeling disease modeling for sepsis and the design of cyber infrastructures for early prediction of epidemic events Part II focuses on healthcare delivery systems including system advances for transforming clinic workflow and patient care macro analysis of patient flow distribution intensive care units primary care demand and resource allocation mathematical models for predicting patient readmission and postoperative outcome physician patient interactions insurance claims and the role of social media in healthcare Healthcare Analytics From Data to Knowledge to Healthcare Improvement

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Variants of Evolutionary Algorithms for Real-World Applications Raymond Chiong, Thomas Weise, Zbigniew Michalewicz, 2011-11-13 Evolutionary Algorithms EAs are population based stochastic search algorithms that mimic natural evolution Due to their ability to find excellent solutions for conventionally hard and dynamic problems within acceptable time EAs have attracted interest from many researchers and practitioners in recent years This book Variants of Evolutionary Algorithms for Real World Applications aims to promote the practitioner s view on EAs by providing a comprehensive discussion of how EAs can be adapted to the requirements of various applications in the real world domains It comprises 14 chapters including an introductory chapter re visiting the fundamental question of what an EA is and other chapters addressing a range of real world problems such as production process planning inventory system and supply chain network optimisation task based jobs assignment planning for CNC based work piece construction mechanical ship design tasks that involve runtime intense simulations data mining for the prediction of soil properties automated tissue classification for MRI images and database query optimisation among others These chapters demonstrate how different types of problems can be successfully solved using variants of EAs and how the solution approaches are constructed in a way that can be understood and reproduced with little prior knowledge on optimisation

Stochastic Programming RUSZCZYNSK, Alexander Shapiro, 2003-10-09 Brings together leading in the most important sub fields of stochastic programming to present a rigorous overview of basic models methods and applications of stochastic programming The text is intended for researchers students engineers and economists who encounter in their work optimization problems involving uncertainty

Research in Stochastic Programming John R. Birge, 2001

Modern Simulation and Modeling Reuven Y. Rubinstein, Benjamin Melamed, 1998-03-09 A step by step guide for today s modeling and simulation practices This new guide for modeling and simulation of discrete event systems DES demonstrates why simulation is fast becoming the method of choice for the evaluation of system performance in science engineering and management The book begins with the basics of conventional simulation then proceeds to modern simulation treating sensitivity analysis and optimization in a wide range of systems that

exhibit complex interaction of discrete events These include communications networks flexible manufacturing systems PERT project evaluation and review techniques networks queueing systems and more Less focused on theory than on presenting a clear approach to practical applications Modern Simulation and Modeling Emphasizes concepts rather than mathematical completeness Integrates references and explanations of complex topics into the body of the text Provides an innovative chapter on rare event probability estimation Describes the implementation of the score function SF method using the NSO simulation package Features 40 illustrations and numerous algorithms Offers extensive end of chapter exercise sets Includes chapter bibliographies for further reading Modern Simulation and Modeling is an essential text for graduate students of DES and stochastic processes and for undergraduate students in simulation It is also an excellent reference for professionals in statistics and probability mathematics and management science **Journal of Statistical Planning and Inference** ,2003

Kybernetika ,2004 Stochastic Programming Roger J.-B. Wets,W. T. Ziemba,1999 **Brazilian Journal of Probability and Statistics** ,2003 Mathematical Reviews ,2008 *New Directions in Statistical Signal Processing* Simon S. Haykin,2007 Leading researchers in signal processing and neural computation present work aimed at promoting the interaction and cross fertilization between the two fields Signal processing and neural computation have separately and significantly influenced many disciplines but the cross fertilization of the two fields has begun only recently Research now shows that each has much to teach the other as we see highly sophisticated kinds of signal processing and elaborate hierarchical levels of neural computation performed side by side in the brain In *New Directions in Statistical Signal Processing* leading researchers from both signal processing and neural computation present new work that aims to promote interaction between the two disciplines The book s 14 chapters almost evenly divided between signal processing and neural computation begin with the brain and move on to communication signal processing and learning systems They examine such topics as how computational models help us understand the brain s information processing how an intelligent machine could solve the cocktail party problem with active audition in a noisy environment graphical and network structure modeling approaches uncertainty in network communications the geometric approach to blind signal processing game theoretic learning algorithms and observable operator models OOMs as an alternative to hidden Markov models HMMs Conference Proceedings ,2003 **American Book Publishing Record** ,1996

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