Stochastic Optimization in Continuous Time

Fwu-Ranq Chang

Stochastic Optimization In Continuous Time

Paolo Brandimarte

Stochastic Optimization In Continuous Time:

    Stochastic Optimization in Continuous Time Fwu-Ranq Chang,2004-04-26 First published in 2004 this is a rigorous but user friendly book on the application of stochastic control theory to economics A distinctive feature of the book is that mathematical concepts are introduced in a language and terminology familiar to graduate students of economics The standard topics of many mathematics economics and finance books are illustrated with real examples documented in the economic literature Moreover the book emphasises the dos and don ts of stochastic calculus cautioning the reader that certain results and intuitions cherished by many economists do not extend to stochastic models A special chapter Chapter 5 is devoted to exploring various methods of finding a closed form representation of the value function of a stochastic control problem which is essential for ascertaining the optimal policy functions The book also includes many practice exercises for the reader Notes and suggested readings are provided at the end of each chapter for more references and possible extensions   **Continuous-time Stochastic Control and Optimization with Financial Applications** Huyên Pham,2009-05-28 Stochastic optimization problems arise in decision making problems under uncertainty and find various applications in economics and finance On the other hand problems in finance have recently led to new developments in the theory of stochastic control This volume provides a systematic treatment of stochastic optimization problems applied to finance by presenting the different existing methods dynamic programming viscosity solutions backward stochastic differential equations and martingale duality methods The theory is discussed in the context of recent developments in this field with complete and detailed proofs and is illustrated by means of concrete examples from the world of finance portfolio allocation option hedging real options optimal investment etc This book is directed towards graduate students and researchers in mathematical finance and will also benefit applied mathematicians interested in financial applications and practitioners wishing toknow more about the use of stochastic optimization methods in finance   **Numerical Methods for Stochastic Control Problems in Continuous Time** Harold Kushner,Paul G. Dupuis,2012-12-06 This book is concerned with numerical methods for stochastic control and optimal stochastic control problems The random process models of the controlled or uncontrolled stochastic systems are either diffusions or jump diffusions Stochastic control is a very active area of research and new prob lem formulations and sometimes surprising applications appear regularly We have chosen forms of the models which cover the great bulk of the for mulations of the continuous time stochastic control problems which have appeared to date The standard formats are covered but much emphasis is given to the newer and less well known formulations The controlled process might be either stopped or absorbed on leaving a constraint set or upon first hitting a target set or it might be reflected or projected from the boundary of a constraining set In some of the more recent applications of the reflecting boundary problem for example the so called heavy traffic approximation problems the directions of reflection are actually discontin uous In general the control might be representable as a bounded function or it might be of

the so called impulsive or singular control types Both the drift and the variance might be controlled The cost functions might be any of the standard types Discounted stopped on first exit from a set finite time optimal stopping average cost per unit time over the infinite time interval and so forth   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   Relative Optimization of Continuous-Time and Continuous-State Stochastic Systems Xi-Ren Cao,2020-05-13 This monograph applies the relative optimization approach to time nonhomogeneous continuous time and continuous state dynamic systems The approach is intuitively clear and does not require deep knowledge of the mathematics of partial differential equations The topics covered have the following distinguishing features long run average with no under selectivity non smooth value functions with no viscosity solutions diffusion processes with degenerate points multi class optimization with state classification and optimization with no dynamic programming The book begins with an introduction to relative optimization including a comparison with the traditional approach of dynamic programming The text then studies the Markov process focusing on infinite horizon optimization problems and moves on to discuss optimal control of diffusion processes with semi smooth value functions and degenerate points and optimization of multi dimensional diffusion processes The book concludes with a brief overview of performance derivative based optimization Among the more important novel considerations presented are the extension of the Hamilton Jacobi Bellman optimality condition from smooth to semi smooth value functions by derivation of explicit optimality conditions at semi smooth points and application of this result to degenerate and reflected processes proof of semi smoothness of the value function at degenerate points attention to the under selectivity issue for the long run average and bias optimality discussion of state classification for time nonhomogeneous continuous processes and multi class optimization and development of the multi dimensional Tanaka formula for semi smooth functions and application of this formula to stochastic control of multi dimensional systems with degenerate points The book will be of interest to researchers and students in the field of stochastic control and performance optimization alike   *Continuous-Time Markov Decision Processes* Alexey Piunovskiy,Yi Zhang,2020-11-09 This book offers a systematic and rigorous treatment of continuous time Markov decision processes covering both theory and possible applications to queueing systems epidemiology finance and other fields Unlike most books on the subject much attention is paid to problems with functional constraints and the realizability of strategies Three major methods of investigations are presented based on dynamic programming linear programming and reduction to discrete time

problems Although the main focus is on models with total discounted or undiscounted cost criteria models with average cost criteria and with impulsive controls are also discussed in depth The book is self contained A separate chapter is devoted to Markov pure jump processes and the appendices collect the requisite background on real analysis and applied probability All the statements in the main text are proved in detail Researchers and graduate students in applied probability operational research statistics and engineering will find this monograph interesting useful and valuable *From Shortest Paths to Reinforcement Learning* Paolo Brandimarte,2021-01-11 Dynamic programming DP has a relevant history as a powerful and flexible optimization principle but has a bad reputation as a computationally impractical tool This book fills a gap between the statement of DP principles and their actual software implementation Using MATLAB throughout this tutorial gently gets the reader acquainted with DP and its potential applications offering the possibility of actual experimentation and hands on experience The book assumes basic familiarity with probability and optimization and is suitable to both practitioners and graduate students in engineering applied mathematics management finance and economics **Encyclopedia of Financial Models, Volume III** Frank J. Fabozzi,2012-09-12 Volume 3 of the Encyclopedia of Financial Models The need for serious coverage of financial modeling has never been greater especially with the size diversity and efficiency of modern capital markets With this in mind the Encyclopedia of Financial Models has been created to help a broad spectrum of individuals ranging from finance professionals to academics and students understand financial modeling and make use of the various models currently available Incorporating timely research and in depth analysis Volume 3 of the Encyclopedia of Financial Models covers both established and cutting edge models and discusses their real world applications Edited by Frank Fabozzi this volume includes contributions from global financial experts as well as academics with extensive consulting experience in this field Organized alphabetically by category this reliable resource consists of forty four informative entries and provides readers with a balanced understanding of today s dynamic world of financial modeling Volume 3 covers Mortgage Backed Securities Analysis and Valuation Operational Risk Optimization Tools Probability Theory Risk Measures Software for Financial Modeling Stochastic Processes and Tools Term Structure Modeling Trading Cost Models and Volatility Emphasizes both technical and implementation issues providing researchers educators students and practitioners with the necessary background to deal with issues related to financial modeling The 3 Volume Set contains coverage of the fundamentals and advances in financial modeling and provides the mathematical and statistical techniques needed to develop and test financial models Financial models have become increasingly commonplace as well as complex They are essential in a wide range of financial endeavors and the Encyclopedia of Financial Models will help put them in perspective **Optimization Over Time** Peter Whittle,1982 **Stochastic Analysis, Filtering, and Stochastic Optimization** George Yin,Thaleia Zariphopoulou,2022-04-22 This volume is a collection of research works to honor the late Professor Mark H A Davis whose pioneering work in the areas of Stochastic Processes Filtering and Stochastic Optimization spans more than five decades

Invited authors include his dissertation advisor past collaborators colleagues mentees and graduate students of Professor Davis as well as scholars who have worked in the above areas Their contributions may expand upon topics in piecewise deterministic processes pathwise stochastic calculus martingale methods in stochastic optimization filtering mean field games time inconsistency as well as impulse singular risk sensitive and robust stochastic control   **Proceedings of the 12th International Symposium on System Synthesis** ,1999 These proceedings cover real time and low power system design performance issues in system design memory design for embedded systems architectural synthesis and system design methodologies   **SIAM Journal on Control and Optimization** Society for Industrial and Applied Mathematics,2004

Stochastic Programming Michael Alan Howarth Dempster,1980   **Integer Programming** ,2005   *Mathematical Reviews* ,2004   **Electric Drive Systems Dynamics** Ludger M. Szklarski,Kazimierz Jaracz,Andrzej Horodecki,1990 Most books concerning the dynamics of electromechanical power conversion are more or less based on the general approach to such systems where the problem of electric drives is regarded as rather marginal in spite of the fact that electric drives in modern industry take up about 80% of the total power used in a given plant Recently the field of electric drives has experienced rapid expansion caused mainly by the advances in semiconductors This book characterizes the present state of knowledge on the dynamics of electric drives The fundamental problems on the dynamics of electric driving systems their analysis synthesis and industrial applications are presented The method of constructing mathematical models of electromechanical systems is described based on the Hamilton principle state variable equations and the so called independent equations Conversely the control of such systems is concerned with the problems of optimization and some of the most commonly used methods of optimization concerning the d c and a c drives are described The last chapter discusses some industrial applications of several structures of driving systems   **Advances in Applied Probability** ,2007   **U.S. Government Research & Development Reports** ,1965   *U.S. Government Research and Development Reports* ,1965

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