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24

Harold J. Kushner
Paul Dupuis

Numerical Methods for Stochastic Control Problems in Continuous Time

Second Edition



Springer

Numerical Methods For Stochastic Control Problems In Continuous Time

Terry C. Jones



Numerical Methods For Stochastic Control Problems In Continuous Time:

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 problem formulations and sometimes surprising applications appear regularly. We have chosen forms of the models which cover the great bulk of the formulations 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 discontinuous. 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.

Numerical Methods for Stochastic Control Problems in Continuous Time Harold Kushner, Paul G. Dupuis, 2013-11-27

Changes in the second edition: The second edition differs from the first in that there is a full development of problems where the variance of the diffusion term and the jump distribution can be controlled. Also a great deal of new material concerning deterministic problems has been added including very efficient algorithms for a class of problems of wide current interest. 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 problem formulations and sometimes surprising applications appear regularly. We have chosen forms of the models which cover the great bulk of the formulations 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 discontinuous. In general the control might be representable as a bounded function or it might be of the so called impulsive or singular control types.

Numerical Methods for Stochastic Control Problems in Continuous Time
Harold Joseph Kushner, Paul Dupuis, 1992

Stochastic control is a very active area of research and this monograph written by two leading authorities in the field has been updated to reflect the latest developments. It covers effective numerical methods

for stochastic control problems in continuous time on two levels that of practice algorithms and applications and that of mathematical development It is broadly accessible for graduate students and researchers

Numerical Methods for Stochastic Control Problems in Continuous Time Harold Kushner, Paul G. Dupuis, 2012-02-07 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 problem formulations and sometimes surprising applications appear regularly We have chosen forms of the models which cover the great bulk of the formulations 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 discontinuous 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

Numerical Methods in Stochastic Control, 2002 The second edition of our book 4 on numerical methods in stochastic control has appeared The book and the methods contained therein are now the standard in the field It contains the most comprehensive development of numerical algorithms and associated convergence proofs for a large part of the current forms of stochastic control problems in continuous time The PI s algorithms and proof techniques are the algorithms of choice for the bulk of continuous time stochastic control problems In addition to the broad coverage of the first edition it gives numerical algorithms and proofs for problems where the variance term is controlled and for jump diffusions where the jump is controlled Important applications of jump control occur for example in communications theory Consider for example a system where a server divides its time between several queues whose input processes are bursty and the individual connections are subject to random breakdown or fading The control problem is the scheduling of the server and this must be done continuously A jump increase in the total system workload can occur when some connection breaks down or fades and the work in the available queues is less than the server can handle but customers continue to arrive at the unavailable queues so there is undesired idle time The control policy affects the jump sizes Traditional methods cannot handle such problems The standard use of the Poisson measure driven model is no longer adequate and a general theory is developed Additionally the book contains a thorough development of deterministic problems that arise in control and in the calculus of variations and includes discontinuous or unbounded dynamical terms with applications to image reconstruction large deviations and elsewhere The algorithms are about the fastest and most stable available and there are

convergence proofs for all of them

Numerical Methods for Controlled Stochastic Delay Systems Harold Kushner, 2008-12-19 The Markov chain approximation methods are widely used for the numerical solution of nonlinear stochastic control problems in continuous time This book extends the methods to stochastic systems with delays The book is the first on the subject and will be of great interest to all those who work with stochastic delay equations and whose main interest is either in the use of the algorithms or in the mathematics An excellent resource for graduate students researchers and practitioners the work may be used as a graduate level textbook for a special topics course or seminar on numerical methods in stochastic control

Numerical Methods for Continuous-time, Continuous-state Stochastic Control Problems Claus Munk, Odense Universitet. Det Samfundsvidenskabelige Fakultet, Odense University, Department of Management, School of Business and Economics, 1997

Numerical Methods for Stochastic Control Problems in Continuous Time Harold Kushner, 1987

Computation and Applied Mathematics, 1997

Mathematics of Derivative Securities Michael A. H. Dempster, Stanley R. Pliska, 1997-10-13 During 1995 the Isaac Newton Institute for the Mathematical Sciences at Cambridge University hosted a six month research program on financial mathematics During this period more than 300 scholars and financial practitioners attended to conduct research and to attend more than 150 research seminars Many of the presented papers were on the subject of financial derivatives The very best were selected to appear in this volume They range from abstract financial theory to practical issues pertaining to the pricing and hedging of interest rate derivatives and exotic options in the market place Hence this book will be of interest to both academic scholars and financial engineers

Controlled Markov Processes and Viscosity Solutions Wendell H. Fleming, Halil Mete Soner, 2006-02-04 This book is an introduction to optimal stochastic control for continuous time Markov processes and the theory of viscosity solutions It covers dynamic programming for deterministic optimal control problems as well as to the corresponding theory of viscosity solutions New chapters in this second edition introduce the role of stochastic optimal control in portfolio optimization and in pricing derivatives in incomplete markets and two controller zero sum differential games

SIAM Journal on Scientific Computing, 1997

SIAM Journal on Control and Optimization Society for Industrial and Applied Mathematics, 2006

Mathematicae notae, 1991

The Journal of Computational Finance, 2004

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APMR, *American Book Publishing Record*, 2001

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