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Harold J. Kushner Paul Dupuis

Numerical Methods for Stochastic Control Problems in Continuous Time



Second Edition



Springer

Harold Kushner, Paul G. Dupuis

Numerical Methods for Stochastic Control Problems in Continuous Time Harold J. Kushner, Paul Dupuis, 2001 The required background is surveyed and there is an extensive development of methods of approximation and computational algorithms The book is written on two levels algorithms and applications and mathematical proofs Thus the ideas should be very accessible to a broad audience BOOK JACKET **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 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 Numerical Methods for Stochastic Control Problems in Continuous Time Harold Kushner, Paul G. types 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 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 Numerical Methods for Controlled Stochastic Delay Systems Harold graduate students and researchers 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 Numerical Methods in Stochastic Control, 2002 The second edition of our book 4 on methods in stochastic control 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 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 Stochastic Processes and Applications to Mathematical Finance

Jiro Akahori, Shigeyoshi Ogawa, Shinzo Watanabe, 2007 This volume contains the contributions to a conference that is among the most important meetings in financial mathematics Serving as a bridge between probabilists in Japan called the Ito School and known for its highly sophisticated mathematics and mathematical finance and financial engineering the conference elicits the very highest quality papers in the field of financial mathematics Modeling, Stochastic Control, Optimization, and Applications George Yin, Qing Zhang, 2019-07-16 This volume collects papers based on invited talks given at the IMA workshop in Modeling Stochastic Control Optimization and Related Applications held at the Institute for Mathematics and Its Applications University of Minnesota during May and June 2018 There were four week long workshops during the conference They are 1 stochastic control computation methods and applications 2 queueing theory and networked systems 3 ecological and biological applications and 4 finance and economics applications For broader impacts researchers from different fields covering both theoretically oriented and application intensive areas were invited to participate in the conference It brought together researchers from multi disciplinary communities in applied mathematics applied probability engineering biology ecology and networked science to review and substantially update most recent progress As an archive this volume presents some of the highlights of the workshops and collect papers covering a broad range of topics Handbook of Computational and Numerical Methods in Finance Svetlozar T. Rachev, 2011-06-28 Numerical Methods in Finance have recently emerged as a new discipline at the intersection of probability theory finance and numerical analysis They bridge the gap between financial theory and computational practice and provide solutions to problems where analytical methods are often non applicable Numerical methods are more and more used in several topics of financial analy sis computation of complex derivatives market credit and operational risk assess ment asset liability management optimal portfolio theory financial econometrics and others Although numerical methods in finance have been studied intensively in recent years many theoretical and practical financial aspects have yet to be explored This volume presents current research focusing on various numerical methods in finance The contributions cover methodological issues Genetic Algorithms Neural Net works Monte Carlo methods Finite Difference Methods Stochastic Portfolio Opti mization as well as the application of other numerical methods in finance and risk management As editor I am grateful to the contributors for their fruitful collaboration I would particularly like to thankStefan Trueck and Carlo Marinelli for the excellent editorial assistance received over the progress of this project Thomas Plum did a splendid word processingjob in preparing the manuscript lowe much to George Anastassiou ConsultantEditor Birkhauser and Ann Kostant Executive Editor Mathematics and Physics Birkhauser for their help and encouragement

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