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ENGINEERING

Volume J.25

Dynamic Programming and Stochastic Control

Donald P. Bertsekas

Dynamic Programming And Stochastic Control

Harold Kushner, Paul G. Dupuis



Dynamic Programming And Stochastic Control:

Optimization Over Time Peter Whittle, 1982 **Dynamic Programming and Stochastic Control** Bertsekas, 1976-11-26
Dynamic Programming and Stochastic Control **Dynamic programming and stochastic control** Dimitri P. Bertsekas, 1976 **Optimization Over Time** Peter Whittle, 1983 Stochastic Control Theory Makiko Nisio, 2014-11-27

This book offers a systematic introduction to the optimal stochastic control theory via the dynamic programming principle which is a powerful tool to analyze control problems. First we consider completely observable control problems with finite horizons. Using a time discretization we construct a nonlinear semigroup related to the dynamic programming principle DPP whose generator provides the Hamilton Jacobi Bellman HJB equation and we characterize the value function via the nonlinear semigroup besides the viscosity solution theory. When we control not only the dynamics of a system but also the terminal time of its evolution control stopping problems arise. This problem is treated in the same frameworks via the nonlinear semigroup. Its results are applicable to the American option price problem. Zero sum two player time homogeneous stochastic differential games and viscosity solutions of the Isaacs equations arising from such games are studied via a nonlinear semigroup related to DPP. The min max principle to be precise. Using semi discretization arguments we construct the nonlinear semigroups whose generators provide lower and upper Isaacs equations. Concerning partially observable control problems we refer to stochastic parabolic equations driven by colored Wiener noises in particular the Zakai equation. The existence and uniqueness of solutions and regularities as well as Itô's formula are stated. A control problem for the Zakai equations has a nonlinear semigroup whose generator provides the HJB equation on a Banach space. The value function turns out to be a unique viscosity solution for the HJB equation under mild conditions. This edition provides a more generalized treatment of the topic than does the earlier book *Lectures on Stochastic Control Theory* ISI Lecture Notes 9 where time homogeneous cases are dealt with. Here for finite time horizon control problems DPP was formulated as a one parameter nonlinear semigroup whose generator provides the HJB equation by using a time discretization method. The semigroup corresponds to the value function and is characterized as the envelope of Markovian transition semigroups of responses for constant control processes. Besides finite time horizon controls the book discusses control stopping problems in the same frameworks.

Stochastic Controls Jiongmin Yong, Xun Yu Zhou, 2012-12-06. As is well known Pontryagin's maximum principle and Bellman's dynamic programming are the two principal and most commonly used approaches in solving stochastic optimal control problems. An interesting phenomenon one can observe from the literature is that these two approaches have been developed separately and independently. Since both methods are used to investigate the same problems a natural question one will ask is the following Q: What is the relationship between the maximum principle and dynamic programming in stochastic optimal controls? There did exist some researches prior to the 1980s on the relationship between these two. Nevertheless the results usually were stated in heuristic terms and proved under rather restrictive

assumptions which were not satisfied in most cases In the statement of a Pontryagin type maximum principle there is an adjoint equation which is an ordinary differential equation ODE in the finite dimensional deterministic case and a stochastic differential equation SDE in the stochastic case The system consisting of the adjoint equation the original state equation and the maximum condition is referred to as an extended Hamiltonian system On the other hand in Bellman's dynamic programming there is a partial differential equation PDE of first order in the finite dimensional deterministic case and of second order in the stochastic case This is known as a Hamilton Jacobi Bellman HJB equation *Optimization Over Time. Dynamic Programming and Stochastic Control Vol. 2* Peter Whittle,1983 **Optimization Over Time** Peter Whittle,1981

Stochastic Optimal Control in Infinite Dimension Giorgio Fabbri,Fausto Gozzi,Andrzej Święch,2017-06-22 Providing an introduction to stochastic optimal control in infinite dimension this book gives a complete account of the theory of second order HJB equations in infinite dimensional Hilbert spaces focusing on its applicability to associated stochastic optimal control problems It features a general introduction to optimal stochastic control including basic results e.g the dynamic programming principle with proofs and provides examples of applications A complete and up to date exposition of the existing theory of viscosity solutions and regular solutions of second order HJB equations in Hilbert spaces is given together with an extensive survey of other methods with a full bibliography In particular Chapter 6 written by M Fuhrman and G Tessitore surveys the theory of regular solutions of HJB equations arising in infinite dimensional stochastic control via BSDEs The book is of interest to both pure and applied researchers working in the control theory of stochastic PDEs and in PDEs in infinite dimension Readers from other fields who want to learn the basic theory will also find it useful The prerequisites are standard functional analysis the theory of semigroups of operators and its use in the study of PDEs some knowledge of the dynamic programming approach to stochastic optimal control problems in finite dimension and the basics of stochastic analysis and stochastic equations in infinite dimensional spaces **Continuous-time Stochastic Control and**

Optimization with Financial Applications Huyen 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 to know more about the use of stochastic optimization methods in finance 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** **Optimal Stochastic Control,**

Stochastic Target Problems, and Backward SDE Nizar Touzi, 2012-09-27 This book collects some recent developments in stochastic control theory with applications to financial mathematics We first address standard stochastic control problems from the viewpoint of the recently developed weak dynamic programming principle A special emphasis is put on the regularity issues and in particular on the behavior of the value function near the boundary We then provide a quick review of the main tools from viscosity solutions which allow to overcome all regularity problems We next address the class of stochastic target problems which extends in a nontrivial way the standard stochastic control problems Here the theory of viscosity solutions plays a crucial role in the derivation of the dynamic programming equation as the infinitesimal counterpart of the corresponding geometric dynamic programming equation The various developments of this theory have been stimulated by applications in finance and by relevant connections with geometric flows Namely the second order extension was motivated by illiquidity modeling and the controlled loss version was introduced following the problem of quantile hedging The third part specializes to an overview of Backward stochastic differential equations and their extensions to the quadratic case **Stochastic Control in Discrete and Continuous Time** Atle Seierstad, 2010-07-03 This book contains an

introduction to three topics in stochastic control discrete time stochastic control i e stochastic dynamic programming Chapter 1 piecewise deterministic control problems Chapter 3 and control of Itô diffusions Chapter 4 The chapters include treatments of optimal stopping problems An Appendix calls material from elementary probability theory and gives heuristic explanations of certain more advanced tools in probability theory The book will hopefully be of interest to students in several fields economics engineering operations research finance business mathematics In economics and business administration graduate students should readily be able to read it and the mathematical level can be suitable for advanced undergraduates in mathematics and science The prerequisites for reading the book are only a calculus course and a course in elementary probability Certain technical comments may demand a slightly better background As this book perhaps and hopefully will be read by readers with widely differing backgrounds some general advice may be useful Don't be put off if paragraphs comments or remarks contain material of a seemingly more technical nature that you don't understand Just skip such material and continue reading it will surely not be needed in order to understand the main ideas and results The presentation avoids the use of measure theory **Discrete-Time Stochastic Control and Dynamic Potential Games** David

González-Sánchez, Onésimo Hernández-Lerma, 2013-09-20 There are several techniques to study noncooperative dynamic games such as dynamic programming and the maximum principle also called the Lagrange method It turns out however that one way to characterize dynamic potential games requires to analyze inverse optimal control problems and it is here where

the Euler equation approach comes in because it is particularly well suited to solve inverse problems Despite the importance of dynamic potential games there is no systematic study about them This monograph is the first attempt to provide a systematic self contained presentation of stochastic dynamic potential games

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

Dynamic Programming and Optimal Stochastic Control Frank Tze-pa Lee, 1973 *The Application of Dynamic Programming to a Stochastic Control Problem* David Ellsworth Greene (CAPT, USAF.), 1965

Dynamic Programming and Stochastic Control Processes Richard Bellman, 1957 It is shown how the functional equation technique of dynamic programming may be used to obtain a new computational and analytic approach to variational problems The limited memory capacity of present day digital computers limits the successful application of these techniques to first and second order systems at the moment with limited application to higher order systems

Optimization, Control, and Applications of Stochastic Systems Daniel Hernández-Hernández, J. Adolfo Minjárez-Sosa, 2012-08-15 This volume provides a general overview of discrete and continuous time Markov control processes and stochastic games along with a look at the range of applications of stochastic control and some of its recent theoretical developments These topics include various aspects of dynamic programming approximation algorithms and infinite dimensional linear programming In all the work comprises 18 carefully selected papers written by experts in their respective fields Optimization Control and Applications of Stochastic Systems will be a valuable resource for all practitioners researchers and professionals in applied mathematics and operations research who work in the areas of stochastic control mathematical finance queueing theory and inventory systems It may also serve as a supplemental text for graduate courses in optimal control and dynamic games

Dynamic Programming Equations for Constrained Stochastic Control Richard C. Chen, 2000

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