Stochastic

of Partially Observable Systems

A. BENSOUSSAN

Stochastic Control Of Partially Observable Systems

William M. McEneaney, G. George Yin, Qing Zhang

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Stochastic Control of Partially Observable Systems Alain Bensoussan, 1992-08-13 These systems play an important Stochastic Control Theory Makiko Nisio, 2014-11-27 This book offers a systematic introduction role in many applications 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 It'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 **Mathematical Control Theory for Stochastic** Partial Differential Equations Qi Lü, Xu Zhang, 2021-09-17 This is the first book to systematically present control theory for stochastic distributed parameter systems a comparatively new branch of mathematical control theory. The new phenomena and difficulties arising in the study of controllability and optimal control problems for this type of system are explained in detail Interestingly enough one has to develop new mathematical tools to solve some problems in this field such as the global Carleman estimate for stochastic partial differential equations and the stochastic transposition method for backward stochastic evolution equations In a certain sense the stochastic distributed parameter control system is the most general control system in the context of classical physics Accordingly studying this field may also yield valuable insights into quantum control systems A basic grasp of functional analysis partial differential equations and control theory for deterministic systems

is the only prerequisite for reading this book Partially Observable Linear Systems Under Dependent Noises Agamirza E. Bashirov, 2012-12-06 Noise is a rich concept playing an underlying role in human activity Consideration of the noise phenomenon in arts and sciences respectively makes the distinction between both domains more obvious Artists create deliberate noise the masterpieces of literature music modern fine art etc are those where a clear idea traditionally related to such concepts as love is presented under a skilful veil of deliberate noise On the contrary sciences fight against noise a scientific discovery is a law of nature extracted from a noisy medium and refined This book discusses the methods of fighting against noise It can be regarded as a mathematical view of specific engineering problems with known and new methods of control and estimation in noisy media The main feature of this book is the investigation of stochastic optimal control and estimation problems with the noise processes acting dependently on the state or signal and observation systems While multiple early and recent findings on the subject have been obtained and challenging problems remain to be solved this subject has not yet been dealt with systematically nor properly investigated The discussion is given for infinite dimensional systems but within the linear quadratic framework for continuous and finite time horizon In order to make this book self contained some background material is provided Consequently the target readers of this book are both applied mathematicians and theoretically oriented engineers who are designing new technology as well as students of the related branches The book may also be used as a reference manual in that part of functional analysis that is needed for problems of infinite dimensional linear systems theory Applied Stochastic Control of Jump Diffusions Bernt Øksendal, Agnès Sulem, 2019-04-17 The main purpose of the book is to give a rigorous introduction to the most important and useful solution methods of various types of stochastic control problems for jump diffusions and their applications Both the dynamic programming method and the stochastic maximum principle method are discussed as well as the relation between them Corresponding verification theorems involving the Hamilton Jacobi Bellman equation and or quasi variational inequalities are formulated The text emphasises applications mostly to finance All the main results are illustrated by examples and exercises appear at the end of each chapter with complete solutions This will help the reader understand the theory and see how to apply it The book assumes some basic knowledge of stochastic analysis measure theory and partial differential equations The 3rd edition is an expanded and updated version of the 2nd edition containing recent developments within stochastic control and its applications Specifically there is a new chapter devoted to a comprehensive presentation of financial markets modelled by jump diffusions and one on backward stochastic differential equations and convex risk measures Moreover the authors have expanded the optimal stopping and the stochastic control chapters to include optimal control of mean field systems and stochastic differential games **Linear Matrix Inequalities in System and Control Theory** Stephen Boyd, Laurent El Ghaoui, Eric Feron, Venkataramanan Balakrishnan, 1994-01-01 In this book the authors reduce a wide variety of problems arising in system and control theory to a handful of convex and quasiconvex optimization problems that involve

linear matrix inequalities. These optimization problems can be solved using recently developed numerical algorithms that not only are polynomial time but also work very well in practice the reduction therefore can be considered a solution to the original problems. This book opens up an important new research area in which convex optimization is combined with system and control theory resulting in the solution of a large number of previously unsolved problems 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 Lectures on BSDEs, Stochastic Control, and Stochastic Differential **Games with Financial Applications** Rene Carmona, 2016-02-18 The goal of this textbook is to introduce students to the stochastic analysis tools that play an increasing role in the probabilistic approach to optimization problems including stochastic control and stochastic differential games While optimal control is taught in many graduate programs in applied mathematics and operations research the author was intrigued by the lack of coverage of the theory of stochastic differential games This is the first title in SIAM s Financial Mathematics book series and is based on the author s lecture notes It will be helpful to students who are interested in stochastic differential equations forward backward forward backward the probabilistic approach to stochastic control dynamic programming and the stochastic maximum principle and mean field games and control of McKean Vlasov dynamics The theory is illustrated by applications to models of systemic risk macroeconomic growth flocking schooling crowd behavior and predatory trading among others **Stochastic Optimal Control in Infinite Dimension** Giorgio Fabbri, Fausto Gozzi, Andrzej Świech, 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 HIB 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 Stochastic Analysis, Control, Optimization and Applications William M. McEneaney, G. George Yin, Qing Zhang, 2012-12-06 In view of Professor Wendell Fleming's many fundamental contributions his profound influence on the mathematical and systems theory communities his service to the profession and his dedication to mathematics we have invited a number of leading experts in the fields of control optimization and stochastic systems to contribute to this volume in his honor on the occasion of his 70th birthday These papers focus on various aspects of stochastic analysis control theory and optimization and applications They include authoritative expositions and surveys as well as research papers on recent and important issues The papers are grouped according to the following four major themes 1 large deviations risk sensitive and Hoc control 2 partial differential equations and viscosity solutions 3 stochastic control filtering and parameter esti mation and 4 mathematical finance and other applications. We express our deep gratitude to all of the authors for their invaluable contributions and to the referees for their careful and timely reviews We thank Harold Kushner for having graciously agreed to undertake the task of writing the foreword Particular thanks go to H Thomas Banks for his help advice and suggestions during the entire preparation process as well as for the generous support of the Center for Research in Scientific Computation The assistance from the Birkhauser professional staff is also greatly appreciated

Continuous-Time Markov Jump Linear Systems Oswaldo Luiz do Valle Costa, Marcelo D. Fragoso, Marcos G. Todorov, 2012-12-18 It has been widely recognized nowadays the importance of introducing mathematical models that take into account possible sudden changes in the dynamical behavior of a high integrity systems or a safety critical system Such systems can be found in aircraft control nuclear power stations robotic manipulator systems integrated communication networks and large scale flexible structures for space stations and are inherently vulnerable to abrupt changes in their structures caused by component or interconnection failures In this regard a particularly interesting class of models is the so called Markov jump linear systems MJLS which have been used in numerous applications including robotics economics and wireless communication Combining probability and operator theory the present volume provides a unified and rigorous treatment of recent results in control theory of continuous time MJLS This unique approach is of great interest to experts working in the field of linear systems with Markovian jump parameters or in stochastic control The volume focuses on one of the few cases of stochastic control problems with an actual explicit solution and offers material well suited to coursework introducing students to an interesting and active research area The book is addressed to researchers working in control and

signal processing engineering Prerequisites include a solid background in classical linear control theory basic familiarity with continuous time Markov chains and probability theory and some elementary knowledge of operator theory and Control over Communication Networks Alexey S. Matveey, Andrey V. Savkin, 2009-04-05 This book presents a systematic theory of estimation and control over communication networks It develops a theory that utilizes communications control information and dynamical systems theory motivated and applied to advanced networking scenarios The book establishes theoretically rich and practically important connections among modern control theory Shannon information theory and entropy theory of dynamical systems originated in the work of Kolmogorov This self contained monograph covers the latest achievements in the area It contains many real world applications and the presentation is accessible Processes with Applications to Finance Nicole Bäuerle, Ulrich Rieder, 2011-06-06 The theory of Markov decision processes focuses on controlled Markov chains in discrete time The authors establish the theory for general state and action spaces and at the same time show its application by means of numerous examples mostly taken from the fields of finance and operations research By using a structural approach many technicalities concerning measure theory are avoided They cover problems with finite and infinite horizons as well as partially observable Markov decision processes piecewise deterministic Markov decision processes and stopping problems The book presents Markov decision processes in action and includes various state of the art applications with a particular view towards finance It is useful for upper level undergraduates Master's students and researchers in both applied probability and finance and provides exercises without solutions Equations: Theory, Control and Approximation Philippe G. Ciarlet, Tatsien Li, Yvon Maday, 2013-11-29 This book collects papers mainly presented at the International Conference on Partial Differential Equations Theory Control and Approximation May 28 to June 1 2012 in Shanghai in honor of the scientific legacy of the exceptional mathematician Jacques Louis Lions The contributors are leading experts from all over the world including members of the Academies of Sciences in France the USA and China etc and their papers cover key fields of research e g partial differential equations control theory and numerical analysis that Jacques Louis Lions created or contributed so much to establishing Error Analysis with Applications in Engineering Zbigniew A. Kotulski, Wojciech Szczepinski, 2009-12-10 Our intention in preparing this book was to present in as simple a manner as possible those branches of error analysis which nd direct applications in solving various problems in engineering practice. The main reason for writing this text was the lack of such an approach in existing books dealing with the error calculus Most of books are devoted to mathematical statistics and to probability theory. The range of applications is usually limited to the problems of general statistics and to the analysis of errors in various measuring techniques Much less attention is paid in these books to two dimensional and three dim sional distributions and almost no attention is given to problems connected with the two dimensional and three dimensional vectorial functions of independent random variables The theory of such vectorial functions nds new applications connected for example with analysis of the positioning accuracy

of various mechanisms among them of robot manipulators and automatically controlled earth moving and loading machines Engineering Geology and the Environment G.C. Koukis, P.G. Marinos, G.C. Stourna, G.C. such as excavators Tsiambaos, 1997-01-01 Composed of the proceedings of a symposium on engineering geology and the environment held in Athens in June 1997 this work provides a survey of trends in engineering geology and an interdisciplinary collaboration with hydrogeology geochemistry geomorphology and soil and rock mechanics Quantum Stochastics and Information V. P. Belaykin, M?d?lin Gu??, 2008 Quantum stochastic calculus has become an indispensable tool in modern quantum physics its effectiveness being illustrated by recent developments in quantum control which place the calculus at the heart of the theory Quantum statistics is rapidly taking shape as an intrinsically quantum counterpart to classical statistics motivated by advances in quantum engineering and the need for better statistical inference tools for quantum systems. This volume contains a selection of regulear research articles and reviews by leading researchers in quantum control quantum statistics quantum probability and quantum information The selection offers a unified view of recent trends in quantum stochastics highlighting the common mathematical language of Hilbert space operators and the deep connections between classical and quantum stochastic phenomena Stochastic Processes, Finance and Control Robert J. Elliot, 2012 This Festschrift is dedicated to Robert J Elliott on the occasion of his 70th birthday It brings together a collection of chapters by distinguished and eminent scholars in the fields of stochastic processes filtering and control as well as their applications to mathematical finance It presents cutting edge developments in these fields and is a valuable source of references for researchers graduate students and market practitioners in mathematical finance and financial engineering Topics include the theory of stochastic processes differential and stochastic games mathematical finance filtering and control **Advances in Statistical Control**, Algebraic Systems Theory, and Dynamic Systems Characteristics Chang-Hee Won, Cheryl B. Schrader, Anthony N. Michel, 2010-07-08 Life has many surprises One of the best surprises is meeting a caring mentor an encouraging collaborator or an enthusiastic friend This volume is a tribute to P fessor Michael K Sain who is such a teacher colleague and friend On the beautiful fall day of October 27 2007 friends families colleagues and former students ga ered at a workshop held in Notre Dame Indiana This workshop brought together many people whose lives have been touched by Mike to celebrate his milestone 70th birthday and to congratulate him on his contributions in the elds of systems c cuits and control Mike was born on March 22 1937 in St Louis Missouri After obtaining his B S E E and M S E E at St Louis University he went on to study at the University of Illinois at Urbana Champaignfor his doctoral degree With his Ph D degree c plete he came to the University of Notre Dame in 1965 as an assistant professor He became an associate professor in 1968 a full professor in 1972 and the Frank M Freimann Chair in Electrical Engineering in 1982 He has remained at and loved the University of Notre Dame for over 40 years Mike also held a number of consu ing jobs throughout his career Most notably he consulted with the Energy Controls Division of Allied Bendix Aerospace from 1976 to 1988 and the North American Operations branch of the Research

And Development Laboratory of General Motors Corporation for a decade 1984 1994 Mathematical Finance Michael Kohlmann, Tang Shanjian, 2001-06 The year 2000 is the centenary year of the publication of Bachelier's thesis which together with Harry Markovitz Ph D dissertation on portfolio selection in 1952 and Fischer Black's and Myron Scholes solution of an option pricing problem in 1973 is considered as the starting point of modern finance as a mathematical discipline On this remarkable anniversary the workshop on mathematical finance held at the University of Konstanz brought together practitioners economists and mathematicians to discuss the state of the art Apart from contributions to the known discrete Brownian and Lvy process models first attempts to describe a market in a reasonable way by a fractional Brownian motion model are presented opening many new aspects for practitioners and new problems for mathematicians As most dynamical financial problems are stochastic filtering or control problems many talks presented adaptations of control methods and techniques to the classical financial problems in portfolio selection irreversible investment risk sensitive asset allocation capital asset pricing hedging contingent claims option pricing interest rate theory The contributions of practitioners link the theoretical results to the steadily increasing flow of real world problems from financial institutions into mathematical laboratories The present volume reflects this exchange of theoretical and applied results methods and techniques that made the workshop a fruitful contribution to the interdisciplinary work in mathematical finance

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