Stochastic Control

of Partially
Observable Systems

A. BENSOUSSAN

Stochastic Control Of Partially Observable Systems

Giorgio Fabbri,Fausto Gozzi,Andrzej Święch

Stochastic Control Of Partially Observable Systems:

Stochastic Control of Partially Observable Systems Alain Bensoussan,1992-08-13 These systems play an important role in many applications   *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 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   <u>Partially Observable Linear Systems Under Dependent Noises</u> 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   <u>Linear Matrix Inequalities in System and Control Theory</u> 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   **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 **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 **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 **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 *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 communi ties his service to the profession and his dedication to mathematics we have invited a number of leading experts in the fields of control optimiza tion 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

Estimation and Control over Communication Networks Alexey S. Matveev,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 *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 **Markov Decision 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 Optimal Control and Partial Differential Equations José Luis Menaldi,Edmundo Rofman,Agnes Sulem,2001 This volume contains more than sixty invited papers of international wellknown scientists in the fields where Alain Bensoussan s contributions have been particularly important filtering and control of stochastic systems variationnal problems applications to economy and finance numerical analysis In particular the extended texts of the lectures of Professors Jens Frehse Hitashi Ishii Jacques Louis Lions Sanjoy Mitter Umberto Mosco Bernt Oksendal George Papanicolaou A Shiryaev given in the Conference held in Paris on December 4th 2000 in honor of Professor Alain Bensoussan are included 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 such as excavators **Stochastic Theory and Control** Bozenna Pasik-Duncan,2002-07-24 This volume contains almost all of the papers that were presented at the Workshop on Stochastic Theory and Control that was held at the Univ sity of Kansas 18 20 October 2001 This three day event gathered a group of leading scholars in the eld of stochastic theory and control to discuss leading edge topics of stochastic control which include risk sensitive control adaptive control mathematics of nance estimation identi cation optimal control nonlinear ltering stochastic di erential equations stochastic p tial di erential equations and stochastic theory and its applications The workshop provided an opportunity for many stochastic control researchers to network and discuss cutting edge technologies and applications teaching and future directions of stochastic control Furthermore the workshop focused on promoting control theory in particular stochastic control and it promoted collaborative initiatives in stochastic theory and control and stochastic c trol education The lecture on Adaptation of Real Time Seizure Detection Algorithm was videotaped by the PBS Participants of the workshop have been involved in contributing to the documentary being lmed by PBS which highlights the extraordinary work on Math Medicine and the Mind Discovering Tre ments for Epilepsy that examines the e orts of the multidisciplinary team on which several of the participants of the workshop have been working for many years to solve one of the world s most dramatic neurological conditions Invited high school teachers of Math and Science were among the part ipants of this professional meeting *Partial Differential 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 **Engineering Geology and the Environment** G.C. Koukis,P.G. Marinos,G.C. Stourna,G.C. 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. Belavkin,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 **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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