

APPLIED OPTIMIZATION

Jaime Gil-Aluja

**INVESTMENT IN
UNCERTAINTY**

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Investment In Uncertainty Applied Optim

**Natalia Selini Hadjidimitriou, Antonio
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Investment In Uncertainty Applied Optim:

Nonlinear Mathematics for Uncertainty and its Applications Shoumei Li,Xia Wang,Yoshiaki Okazaki,Jun Kawabe,Toshiaki Murofushi,Li Guan,2011-07-21 This volume is a collection of papers presented at the international conference on Nonlinear Mathematics for Uncertainty and Its Applications NLMUA2011 held at Beijing University of Technology during the week of September 7 9 2011 The conference brought together leading researchers and practitioners involved with all aspects of nonlinear mathematics for uncertainty and its applications Over the last fifty years there have been many attempts in extending the theory of classical probability and statistical models to the generalized one which can cope with problems of inference and decision making when the model related information is scarce vague ambiguous or incomplete Such attempts include the study of nonadditive measures and their integrals imprecise probabilities and random sets and their applications in information sciences economics finance insurance engineering and social sciences The book presents topics including nonadditive measures and nonlinear integrals Choquet Sugeno and other types of integrals possibility theory Dempster Shafer theory random sets fuzzy random sets and related statistics set valued and fuzzy stochastic processes imprecise probability theory and related statistical models fuzzy mathematics nonlinear functional analysis information theory mathematical finance and risk managements decision making under various types of uncertainty and others **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 **Effective Investments on**

Capital Markets Waldemar Tarczyński,Kesra Nermend,2019-07-17 This proceedings volume presents current research and innovative solutions into capital markets particularly in Poland Featuring contributions presented at the 10th Capital Market Effective Investments CMEI 2018 conference held in Międzyzdroje Poland this book explores the future of capital markets in Poland as well as comparing it with the capital markets of other developed regions around the world Divided into four parts

the enclosed papers provide a background into the theoretical foundations of capital market investments explores different approaches both classical and contemporary to investment decision making analyzes the behaviors of investors using experimental economics and behavioral finance and explores practical issues related to financial market investments including real case studies In addition each part of the book begins with an introductory chapter written by thematic editors that provides an outline of the subject area and a summary of the papers presented

Continuous-time Stochastic Control and Optimization with Financial Applications Huy  n 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

Backward Stochastic Differential Equations with Jumps and Their Actuarial and Financial Applications Łukasz Delong, 2013-06-12 Backward stochastic differential equations with jumps can be used to solve problems in both finance and insurance Part I of this book presents the theory of BSDEs with Lipschitz generators driven by a Brownian motion and a compensated random measure with an emphasis on those generated by step processes and Lévy processes It discusses key results and techniques including numerical algorithms for BSDEs with jumps and studies filtration consistent nonlinear expectations and g expectations Part I also focuses on the mathematical tools and proofs which are crucial for understanding the theory Part II investigates actuarial and financial applications of BSDEs with jumps It considers a general financial and insurance model and deals with pricing and hedging of insurance equity linked claims and asset liability management problems It additionally investigates perfect hedging superhedging quadratic optimization utility maximization indifference pricing ambiguity risk minimization no good deal pricing and dynamic risk measures Part III presents some other useful classes of BSDEs and their applications This book will make BSDEs more accessible to those who are interested in applying these equations to actuarial and financial problems It will be beneficial to students and researchers in mathematical finance risk measures portfolio optimization as well as actuarial practitioners

Optimal Financial Decision Making under Uncertainty Giorgio Consigli, Daniel Kuhn, Paolo Brandimarte, 2016-10-17 The scope of this volume is primarily to analyze from different methodological perspectives similar valuation and optimization problems arising in financial applications aimed at facilitating a theoretical and computational integration between methods largely regarded as

alternatives Increasingly in recent years financial management problems such as strategic asset allocation asset liability management as well as asset pricing problems have been presented in the literature adopting formulation and solution approaches rooted in stochastic programming robust optimization stochastic dynamic programming including approximate SDP methods as well as policy rule optimization heuristic approaches and others The aim of the volume is to facilitate the comprehension of the modeling and methodological potentials of those methods thus their common assumptions and peculiarities relying on similar financial problems The volume will address different valuation problems common in finance related to asset pricing optimal portfolio management risk measurement risk control and asset liability management The volume features chapters of theoretical and practical relevance clarifying recent advances in the associated applied field from different standpoints relying on similar valuation problems and as mentioned facilitating a mutual and beneficial methodological and theoretical knowledge transfer The distinctive aspects of the volume can be summarized as follows Strong benchmarking philosophy with contributors explicitly asked to underline current limits and desirable developments in their areas Theoretical contributions aimed at advancing the state of the art in the given domain with a clear potential for applications The inclusion of an algorithmic computational discussion of issues arising on similar valuation problems across different methods Variety of applications rarely is it possible within a single volume to consider and analyze different and possibly competing alternative optimization techniques applied to well identified financial valuation problems Clear definition of the current state of the art in each methodological and applied area to facilitate future research directions

New Models And Methods In Dynamic Portfolio Optimization Lijun Bo,Xiang Yu,2025-06-04 This book presents some new models and methods in the context of dynamical portfolio optimization It encapsulates the authors recent progress in their research on several interesting featured issues of dynamic portfolio optimization problems with default contagion tracking benchmark consumption habit and reinforcement learning These models include the default contagion model with infinite regime switching under complete information and partial information portfolio optimization model with consumption habit formation optimal tracking model extended Merton's problem with relaxed benchmark tracking and reinforcement learning of tracking portfolio The methods for addressing these problems are by developing the monotone dynamical system martingale representation theorem under partial information quadratic BSDE with jumps duality method decomposition homogenization technique of Neumann problem stochastic flow and q function learning with state reflection For the sake of the reader's convenience preliminary knowledge on stochastic analysis and stochastic control are summarized in Chapters 2 and 3 which also serve as a brief basic introduction to the theory of SDEs BSDEs and the theory of optimal stochastic control The book will be a good reference for graduate students and researchers working on stochastic control and mathematical finance The reader may pursue some presented research problems and be inspired to formulate and study other new and interesting problems in dynamic portfolio optimization and beyond

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 **SIAM**

Journal on Control and Optimization Society for Industrial and Applied Mathematics, 2009 Seminar on Stochastic

Analysis, Random Fields and Applications IV Robert Dalang, Marco Dozzi, Francesco Russo, 2012-12-06 This volume contains the Proceedings of the Fourth Seminar on Stochastic Analysis Random Fields and Applications which took place at the Centro Stefano Franscini Monte Verita in Ascona Ticino Switzerland from May 20 to 24 2002 The first three editions of this conference occurred in 1993 1996 and 1999 The Seminar covered several topics fundamental aspects of stochastic analysis such as stochastic partial differential equations and random fields and applications to current active fields such as probabilistic methods in fluid dynamics biomathematics and financial modeling As in the previous editions this last topic was the subject of the Fourth Minisymposium on Stochastic Methods in Financial Models These proceedings aim to present key aspects of these topics to a larger audience All papers in this volume have been refereed A major topic within Stochastic Analysis is the area of random fields which includes as particular cases Gaussian random fields stochastic partial differential equations s p d e s and stochastic differential equations with values in Banach spaces In this framework interesting new developments were presented in the theory of Gaussian random fields on manifolds with applications to astrophysics and neurosciences Moreover with the aim of modeling certain very irregular phenomena a theory of s p d e s driven by noises concentrated on hyperplanes was presented **Decision and Control in Uncertain Resource Systems**

Mangel, 1984-12-14 Decision and Control in Uncertain Resource Systems **Mathematical Optimization for Efficient and Robust Energy Networks** Natalia Selini Hadjidimitriou, Antonio Frangioni, Thorsten Koch, Andrea Lodi, 2021-03-19 This book presents a collection of energy production and distribution problems identified by the members of the COST Action TD1207 Mathematical Optimization in the Decision Support Systems for Efficient and Robust Energy Networks The aim of

the COST Action was to coordinate the efforts of the experts in different fields from academia and industry in developing innovative tools for quantitative decision making and apply them to the efficient and robust design and management of energy networks The work covers three main goals to be a nimble while comprehensive resource of several real life business problems with a categorized set of pointers to many relevant prescriptive problems for energy systems to offer a balanced mix of scientific and industrial views to evolve over time in a flexible and dynamic way giving from time to time a more scientific or industrial or even political in a broad sense weighed perspective It is addressed to researchers and professionals working in the field

Real R & D Options Dean Paxson, 2003-01-17 This text addresses a wide range of issues in valuation using the Real Options technique It covers the whole area of Real Options and looks closely at developments especially in valuing technology companies Authors in Europe North and South America Asia and Africa provide seven Real Options models and applications

Journal of Mathematical Biology, 1986 Publishes papers in which mathematics is used to understand biological phenomena and mathematical papers which answer questions arising from models of biological phenomena

The 37th Annual Conference on Power System and Automation in Chinese Universities (CUS-EPISA) Pingliang Zeng, Xiao-Ping Zhang, Vladimir Terzija, Yi Ding, Yunxia Luo, 2023-04-24 This book includes original peer reviewed research papers from the 37th Annual Conference of Power System and Automation in Chinese Universities CUS EPISA held in Hangzhou China on October 23 25 2022 These papers cover topics as Evolution and development path of the power system Resilience assessment analysis and planning of power system Power system planning and reliability Modelling and simulation of novel power system Power electronic for power system stability analysis Power system relay protection and automation and so on The papers included in this proceedings share the latest research results and practical application examples on the methodologies and algorithms in these areas which makes the book a valuable reference for researchers engineers and university students

Iaeng Transactions On Engineering Sciences: Special Issue For The International Association Of Engineers Conferences 2014 Sio-iong Ao, Alan Hoi-shou Chan, Hideki Katagiri, Li Xu, 2015-03-11 Two large international conferences on Advances in Engineering Sciences were held in Hong Kong March 12 14 2014 under the International MultiConference of Engineers and Computer Scientists IMECS 2014 and in London UK 2 4 July 2014 under the World Congress on Engineering 2014 WCE 2014 respectively This volume contains 37 revised and extended research articles written by prominent researchers participating in the conferences Topics covered include engineering mathematics computer science electrical engineering manufacturing engineering industrial engineering and industrial applications The book offers tremendous state of the art advances in engineering sciences and also serves as an excellent reference work for researchers and graduate students working with on engineering sciences

Connections Between Singular Control and Optimal Switching with Applications to Reversible Investment Pascal Ivan Tomecek, 2007

Stochastic Optimization and Economic Models Jati Sengupta, 2013-03-09 This book presents the main applied aspects of stochastic optimization in

economic models Stochastic processes and control theory are used under optimization to illustrate the various economic implications of optimal decision rules Unlike econometrics which deals with estimation this book emphasizes the decision theoretic basis of uncertainty specified by the stochastic point of view Methods of applied stochastic control using stochastic processes have now reached an exciting phase where several disciplines like systems engineering operations research and natural resources interact along with the conventional fields such as mathematical economics finance and control systems Our objective is to present a critical overview of this broad terrain from a multidisciplinary viewpoint In this attempt we have at times stressed viewpoints other than the purely economic one We believe that the economist would find it most profitable to learn from the other disciplines where stochastic optimization has been successfully applied It is in this spirit that we have discussed in some detail the following major areas A Portfolio models in finance B Differential games under uncertainty c Self tuning regulators D Models of renewable resources under uncertainty and ix x PREFACE E Nonparametric methods of efficiency measurement Stochastic processes are now increasingly used in economic models to understand the various adaptive behavior implicit in the formulation of expectation and its application in decision rules which are optimum in some sense

Applied Optimal Control Alain Bensoussan, Paul R. Kleindorfer, Charles S. Tapiero, 1978 *Actes Et Documents*, 1967

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