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New Trends in Random Evolutions and their Applications

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Random Evolutions And Their Applications New Trends

Anatoliy Swishchuk, Shafiqul Islam



Random Evolutions And Their Applications New Trends:

Random Evolutions and their Applications Anatoly Swishchuk, 2000-05-31 This book is devoted to new trends in random evolution and their applications to the stochastic evolutionary system. It contains new developments such as an analogue of Dynkin's formula, boundary value problems, stability and control of random evolutions, stochastic evolutionary equations, and driven martingale measures. In addition, it treats statistics of random evolutions, processes, statistics of financial stochastic models, and stochastic stability and control of financial markets. Audience: This volume will be of interest to research and applied mathematicians working in the fields of applied probability, stochastic processes, and random evolutions, as well as experts in statistics, finance, and insurance.

Inhomogeneous Random Evolutions and Their Applications Anatoliy Swishchuk, 2019-12-11 Inhomogeneous Random Evolutions and Their Applications explains how to model various dynamical systems in finance and insurance with non-homogeneous in time characteristics. It includes modeling for financial underlying and derivatives via Levy processes with time-dependent characteristics, limit order books in the algorithmic and HFT with counting price changes, processes having time-dependent intensities, risk processes which count number of claims with time-dependent conditional intensities, multi-asset price impact from distressed selling, regime switching, Levy-driven diffusion-based price dynamics. Initial models for those systems are very complicated, which is why the author's approach helps to simplify their study. The book uses a very general approach for modeling of those systems via abstract inhomogeneous random evolutions in Banach spaces. To simplify their investigation, it applies the first averaging principle, long-run stability property, or law of large numbers (LLN) to get a deterministic function on the long run. To eliminate the rate of convergence in the LLN, it uses secondly the functional central limit theorem (FCLT) such that the associated cumulative process centered around that deterministic function and suitably scaled in time may be approximated by an orthogonal martingale measure in general and by standard Brownian motion in particular if the scale parameter increases. Thus, this approach allows the author to easily link, for example, microscopic activities with macroscopic ones in HFT, connecting the parameters driving the HFT with the daily volatilities. This method also helps to easily calculate ruin and ultimate ruin probabilities for the risk process. All results in the book are new and original and can be easily implemented in practice.

Discrete-Time Semi-Markov Random Evolutions and Their Applications Nikolaos Limnios, Anatoliy Swishchuk, 2023-07-24 This book extends the theory and applications of random evolutions to semi-Markov random media in discrete time, essentially focusing on semi-Markov chains as switching or driving processes. After giving the definitions of discrete-time semi-Markov chains and random evolutions, it presents the asymptotic theory in a functional setting, including weak convergence results in the series scheme and their extensions in some additional directions, including reduced random media controlled processes and optimal stopping. Finally, applications of discrete-time semi-Markov random evolutions in epidemiology and financial mathematics are discussed. This book will be of interest to researchers and graduate students in

applied mathematics and statistics and other disciplines including engineering epidemiology finance and economics who are concerned with stochastic models of systems Random Dynamical Systems in Finance Anatoliy Swishchuk, Shafiqul Islam, 2016-04-19 The theory and applications of random dynamical systems RDS are at the cutting edge of research in mathematics and economics particularly in modeling the long run evolution of economic systems subject to exogenous random shocks Despite this interest there are no books available that solely focus on RDS in finance and economics Exploring this emerging area Random Dynamical Systems in Finance shows how to model RDS in financial applications Through numerous examples the book explains how the theory of RDS can describe the asymptotic and qualitative behavior of systems of random and stochastic differential difference equations in terms of stability invariant manifolds and attractors The authors present many models of RDS and develop techniques for implementing RDS as approximations to financial models and option pricing formulas For example they approximate geometric Markov renewal processes in ergodic merged double averaged diffusion normal deviation and Poisson cases and apply the obtained results to option pricing formulas With references at the end of each chapter this book provides a variety of RDS for approximating financial models presents numerous option pricing formulas for these models and studies the stability and optimal control of RDS The book is useful for researchers academics and graduate students in RDS and mathematical finance as well as practitioners working in the financial industry **Random Evolutions and Their Applications** Anatoly Swishchuk, 2014-01-15 Modeling and Inverse Problems in the Presence of Uncertainty H. T. Banks, Shuhua Hu, W. Clayton Thompson, 2014-04-01 Modeling and Inverse Problems in the Presence of Uncertainty collects recent research including the authors own substantial projects on uncertainty propagation and quantification It covers two sources of uncertainty where uncertainty is present primarily due to measurement errors and where uncertainty is present due to the modeling formulation itself After a useful review of relevant probability and statistical concepts the book summarizes mathematical and statistical aspects of inverse problem methodology including ordinary weighted and generalized least squares formulations It then discusses asymptotic theories bootstrapping and issues related to the evaluation of correctness of assumed form of statistical models The authors go on to present methods for evaluating and comparing the validity of appropriateness of a collection of models for describing a given data set including statistically based model selection and comparison techniques They also explore recent results on the estimation of probability distributions when they are embedded in complex mathematical models and only aggregate not individual data are available In addition they briefly discuss the optimal design of experiments in support of inverse problems for given models The book concludes with a focus on uncertainty in model formulation itself covering the general relationship of differential equations driven by white noise and the ones driven by colored noise in terms of their resulting probability density functions It also deals with questions related to the appropriateness of discrete versus continuum models in transitions from small to large numbers of individuals With many examples throughout addressing problems in physics

biology and other areas this book is intended for applied mathematicians interested in deterministic and or stochastic models and their interactions It is also suitable for scientists in biology medicine engineering and physics working on basic modeling and inverse problems uncertainty in modeling propagation of uncertainty and statistical modeling **Encyclopedia of Financial Models, Volume III** Frank J. Fabozzi, 2012-09-20 Volume 3 of the Encyclopedia of Financial Models The need for serious coverage of financial modeling has never been greater especially with the size diversity and efficiency of modern capital markets With this in mind the Encyclopedia of Financial Models has been created to help a broad spectrum of individuals ranging from finance professionals to academics and students understand financial modeling and make use of the various models currently available Incorporating timely research and in depth analysis Volume 3 of the Encyclopedia of Financial Models covers both established and cutting edge models and discusses their real world applications Edited by Frank Fabozzi this volume includes contributions from global financial experts as well as academics with extensive consulting experience in this field Organized alphabetically by category this reliable resource consists of forty four informative entries and provides readers with a balanced understanding of today s dynamic world of financial modeling Volume 3 covers Mortgage Backed Securities Analysis and Valuation Operational Risk Optimization Tools Probability Theory Risk Measures Software for Financial Modeling Stochastic Processes and Tools Term Structure Modeling Trading Cost Models and Volatility Emphasizes both technical and implementation issues providing researchers educators students and practitioners with the necessary background to deal with issues related to financial modeling The 3 Volume Set contains coverage of the fundamentals and advances in financial modeling and provides the mathematical and statistical techniques needed to develop and test financial models Financial models have become increasingly commonplace as well as complex They are essential in a wide range of financial endeavors and the Encyclopedia of Financial Models will help put them in perspective Hidden Markov Models in Finance Rogemar S. Mamon, Robert J Elliott, 2007-04-26 A number of methodologies have been employed to provide decision making solutions to a whole assortment of financial problems in today s globalized markets Hidden Markov Models in Finance by Mamon and Elliott will be the first systematic application of these methods to some special kinds of financial problems namely pricing options and variance swaps valuation of life insurance policies interest rate theory credit risk modeling risk management analysis of future demand and inventory level testing foreign exchange rate hypothesis and early warning systems for currency crises This book provides researchers and practitioners with analyses that allow them to sort through the random noise of financial markets i e turbulence volatility emotion chaotic events etc and analyze the fundamental components of economic markets Hence Hidden Markov Models in Finance provides decision makers with a clear accurate picture of core financial components by filtering out the random noise in financial markets *Econometrics of Qualitative Dependent Variables* Christian Gourieroux, 2000-10-09 This text introduces students progressively to various aspects of qualitative models and assumes a knowledge of basic principles of statistics and econometrics After the

introduction Chapters 2 through 6 present models with endogenous qualitative variables examining dichotomous models model specification estimation methods descriptive usage and qualitative panel data The final two chapters describe models that explain variables assumed by discrete or continuous positive variables [Modeling And Pricing Of Swaps For Financial And Energy Markets With Stochastic Volatilities](#) Anatoliy Swishchuk,2013-06-03 Modeling and Pricing of Swaps for Financial and Energy Markets with Stochastic Volatilities is devoted to the modeling and pricing of various kinds of swaps such as those for variance volatility covariance correlation for financial and energy markets with different stochastic volatilities which include CIR process regime switching delayed mean reverting multi factor fractional Levy based semi Markov and COGARCH 1 1 One of the main methods used in this book is change of time method The book outlines how the change of time method works for different kinds of models and problems arising in financial and energy markets and the associated problems in modeling and pricing of a variety of swaps The book also contains a study of a new model the delayed Heston model which improves the volatility surface fitting as compared with the classical Heston model The author calculates variance and volatility swaps for this model and provides hedging techniques The book considers content on the pricing of variance and volatility swaps and option pricing formula for mean reverting models in energy markets Some topics such as forward and futures in energy markets priced by multi factor Levy models and generalization of Black 76 formula with Markov modulated volatility are part of the book as well and it includes many numerical examples such as S P60 Canada Index S P500 Index and AECO Natural Gas Index **Change of Time Methods in Quantitative Finance** Anatoliy Swishchuk,2016-05-31 This book is devoted to the history of Change of Time Methods CTM the connections of CTM to stochastic volatilities and finance fundamental aspects of the theory of CTM basic concepts and its properties An emphasis is given on many applications of CTM in financial and energy markets and the presented numerical examples are based on real data The change of time method is applied to derive the well known Black Scholes formula for European call options and to derive an explicit option pricing formula for a European call option for a mean reverting model for commodity prices Explicit formulas are also derived for variance and volatility swaps for financial markets with a stochastic volatility following a classical and delayed Heston model The CTM is applied to price financial and energy derivatives for one factor and multi factor alpha stable Levy based models Readers should have a basic knowledge of probability and statistics and some familiarity with stochastic processes such as Brownian motion Levy process and martingale [Encyclopedia of Financial Models](#) Frank J. Fabozzi,2012-10-15 An essential reference dedicated to a wide array of financial models issues in financial modeling and mathematical and statistical tools for financial modeling The need for serious coverage of financial modeling has never been greater especially with the size diversity and efficiency of modern capital markets With this in mind the Encyclopedia of Financial Models 3 Volume Set has been created to help a broad spectrum of individuals ranging from finance professionals to academics and students understand financial modeling and make use of the various models currently

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Jianjun Paul Tian,2007-12-24 The author explores evolution algebras which lie between algebras and dynamical systems Readers learn the foundations of evolution algebras theory and its applications in non Mendelian genetics and Markov chains They ll also discover evolution algebras connections with other mathematical fields including graph theory group theory stochastic processes dynamical systems knot theory 3 manifolds and the Ihara Selberg zeta function **Mathematical Reviews** ,2001 **Invasion Genetics** Spencer C. H. Barrett,Robert I. Colautti,Katrina M. Dlugosch,Loren H. Rieseberg,2016-09-19 Invasion Genetics the Baker demographic genetics the role of stochastic forces in the invasion process the contemporary evolution of local adaptation the significance of epigenetics and transgenerational plasticity for invasive species the genomic consequences of colonization the search for invasion genes and the comparative biology of invasive species A wide diversity of invasive organisms are discussed including plants animals fungi and microbes **Mathematical Methods for Analysis of a Complex Disease** F. C. Hoppensteadt,2011-09-23 Complex diseases involve most aspects of population biology including genetics demographics epidemiology and ecology Mathematical methods including differential difference and integral equations numerical analysis and random processes have been used effectively in all of these areas The aim of this book is to provide sufficient background in such mathematical and computational methods to enable the reader to better understand complex systems in biology medicine and the life sciences It introduces concepts in mathematics to study population phenomena with the goal of describing complicated aspects of a disease such as malaria involving several species The book is based on a graduate course in computational biology and applied mathematics taught at the Courant Institute of Mathematical Sciences in fall 2010 The mathematical level is kept to essentially advanced undergraduate

mathematics and the results in the book are intended to provide readers with tools for performing more in depth analysis of population phenomena **The Evolution of Wired Life** Charles Jonscher, 2000-08-01 Thoughtful and erudite Intelligent and readable Will appeal to people who enjoyed Longitude by Dava Sobel or Fermat's Enigma by Simon Singh The San Diego Union Tribune Most engaging The Boston Globe An optimistic and reassuring assertion that no matter what wonders we invent human beings remain infinitely more complex and interesting The Economist A lively informative examination of the computer revolution and why the top performing information processing device is still the human brain If we believe the forecasts of many computer enthusiasts a wave of amazing devices will soon fundamentally change our lives and the thinking machine is just around the corner In this authoritative and entertaining book critically acclaimed author Charles Jonscher presents the other side of the argument while communication developments have changed society they also have their limits He shows us that in order to understand the true transformative powers of the new technologies we must know about the long history of their development and why no calculating machine can match the creative power of the human mind Rich in insights from literature philosophy and history The Evolution of Wired Life offers a fascinating look at the development of the digital era from the invention of the first alphabetic language to the printing press to the World Wide Web *Handbook of Industrial Biocatalysis* Ching T. Hou, 2005-06-09 Until now no comprehensive handbook on industrial biocatalysis has been available Soliciting chapters on virtually every aspect of biocatalysis from international experts most actively researching the field the Handbook of Industrial Biocatalysis fills this need The handbook is divided into three sections based on types of substrates T *Making Sense of Evolution* Massimo Pigliucci, Jonathan Kaplan, 2010-02-15 Making Sense of Evolution explores contemporary evolutionary biology focusing on the elements of theories selection adaptation and species that are complex and open to multiple possible interpretations many of which are incompatible with one another and with other accepted practices in the discipline Particular experimental methods for example may demand one understanding of selection while the application of the same concept to another area of evolutionary biology could necessitate a very different definition Spotlighting these conceptual difficulties and presenting alternate theoretical interpretations that alleviate this incompatibility Massimo Pigliucci and Jonathan Kaplan intertwine scientific and philosophical analysis to produce a coherent picture of evolutionary biology Innovative and controversial Making Sense of Evolution encourages further development of the Modern Synthesis and outlines what might be necessary for the continued refinement of this evolving field Strong and Weak Approximation of Semilinear Stochastic Evolution Equations Raphael Kruse, 2013-11-18 In this book we analyze the error caused by numerical schemes for the approximation of semilinear stochastic evolution equations SEEq in a Hilbert space valued setting The numerical schemes considered combine Galerkin finite element methods with Euler type temporal approximations Starting from a precise analysis of the spatio temporal regularity of the mild solution to the SEEq we derive and prove optimal error estimates of the strong error of convergence in the first part of the book The second part deals with

a new approach to the so called weak error of convergence which measures the distance between the law of the numerical solution and the law of the exact solution This approach is based on Bismut's integration by parts formula and the Malliavin calculus for infinite dimensional stochastic processes These techniques are developed and explained in a separate chapter before the weak convergence is proven for linear SDEs

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