# Selfsimilar Processes



## Paul Embrechts
## and Makoto Maejima

# Selfsimilar Processes Princeton Series In Applied Mathematics

**Francesco Russo,Pierre Vallois**

**Selfsimilar Processes Princeton Series In Applied Mathematics:**

**Selfsimilar Processes** Paul Embrechts,2009-01-10 The modeling of stochastic dependence is fundamental for understanding random systems evolving in time When measured through linear correlation many of these systems exhibit a slow correlation decay a phenomenon often referred to as long memory or long range dependence An example of this is the absolute returns of equity data in finance Selfsimilar stochastic processes particularly fractional Brownian motion have long been postulated as a means to model this behavior and the concept of selfsimilarity for a stochastic process is now proving to be extraordinarily useful Selfsimilarity translates into the equality in distribution between the process under a linear time change and the same process properly scaled in space a simple scaling property that yields a remarkably rich theory with far flung applications After a short historical overview this book describes the current state of knowledge about selfsimilar processes and their applications Concepts definitions and basic properties are emphasized giving the reader a road map of the realm of selfsimilarity that allows for further exploration Such topics as noncentral limit theory long range dependence and operator selfsimilarity are covered alongside statistical estimation simulation sample path properties and stochastic differential equations driven by selfsimilar processes Numerous references point the reader to current applications Though the text uses the mathematical language of the theory of stochastic processes researchers and end users from such diverse fields as mathematics physics biology telecommunications finance econometrics and environmental science will find it an ideal entry point for studying the already extensive theory and applications of selfsimilarity **Marginal and Functional Quantization of Stochastic Processes** Harald Luschgy,Gilles Pagès,2023-12-06 Vector Quantization a pioneering discretization method based on nearest neighbor search emerged in the 1950s primarily in signal processing electrical engineering and information theory Later in the 1960s it evolved into an automatic classification technique for generating prototypes of extensive datasets In modern terms it can be recognized as a seminal contribution to unsupervised learning through the k means clustering algorithm in data science In contrast Functional Quantization a more recent area of study dating back to the early 2000s focuses on the quantization of continuous time stochastic processes viewed as random vectors in Banach function spaces This book distinguishes itself by delving into the quantization of random vectors with values in a Banach space a unique feature of its content Its main objectives are twofold first to offer a comprehensive and cohesive overview of the latest developments as well as several new results in optimal quantization theory spanning both finite and infinite dimensions building upon the advancements detailed in Graf and Luschgy s Lecture Notes volume Secondly it serves to demonstrate how optimal quantization can be employed as a space discretization method within probability theory and numerical probability particularly in fields like quantitative finance The main applications to numerical probability are the controlled approximation of regular and conditional expectations by quantization based cubature formulas with applications to time space discretization of Markov processes typically Brownian diffusions by quantization trees While primarily catering

to mathematicians specializing in probability theory and numerical probability this monograph also holds relevance for data scientists electrical engineers involved in data transmission and professionals in economics and logistics who are intrigued by optimal allocation problems **Stochastic Models for Fractional Calculus** Mark M. Meerschaert,Alla Sikorskii,2019-10-21 Fractional calculus is a rapidly growing field of research at the interface between probability differential equations and mathematical physics It is used to model anomalous diffusion in which a cloud of particles spreads in a different manner than traditional diffusion This monograph develops the basic theory of fractional calculus and anomalous diffusion from the point of view of probability In this book we will see how fractional calculus and anomalous diffusion can be understood at a deep and intuitive level using ideas from probability It covers basic limit theorems for random variables and random vectors with heavy tails This includes regular variation triangular arrays infinitely divisible laws random walks and stochastic process convergence in the Skorokhod topology The basic ideas of fractional calculus and anomalous diffusion are closely connected with heavy tail limit theorems Heavy tails are applied in finance insurance physics geophysics cell biology ecology medicine and computer engineering The goal of this book is to prepare graduate students in probability for research in the area of fractional calculus anomalous diffusion and heavy tails Many interesting problems in this area remain open This book will guide the motivated reader to understand the essential background needed to read and unerstand current research papers and to gain the insights and techniques needed to begin making their own contributions to this rapidly growing field **Stochastic Calculus via Regularizations** Francesco Russo,Pierre Vallois,2022-11-15 The book constitutes an introduction to stochastic calculus stochastic differential equations and related topics such as Malliavin calculus On the other hand it focuses on the techniques of stochastic integration and calculus via regularization initiated by the authors The definitions relies on a smoothing procedure of the integrator process they generalize the usual It and Stratonovich integrals for Brownian motion but the integrator could also not be a semimartingale and the integrand is allowed to be anticipating The resulting calculus requires a simple formalism nevertheless it entails pathwise techniques even though it takes into account randomness It allows connecting different types of pathwise and non pathwise integrals such as Young fractional Skorohod integrals enlargement of filtration and rough paths The covariation but also high order variations play a fundamental role in the calculus via regularization which can also be applied for irregular integrators A large class of Gaussian processes various generalizations of semimartingales such that Dirichlet and weak Dirichlet processes are revisited Stochastic calculus via regularization has been successfully used in applications for instance in robust finance and on modeling vortex filaments in turbulence The book is addressed to PhD students and researchers in stochastic analysis and applications to various fields **Fractional Fields and Applications** Serge Cohen,Jacques Istas,2013-05-29 This book focuses mainly on fractional Brownian fields and their extensions It has been used to teach graduate students at Grenoble and Toulouse s Universities It is as self contained as possible and contains numerous exercises with solutions in an

appendix After a foreword by St phane Jaffard a long first chapter is devoted to classical results from stochastic fields and fractal analysis A central notion throughout this book is self similarity which is dealt with in a second chapter with a particular emphasis on the celebrated Gaussian self similar fields called fractional Brownian fields after Mandelbrot and Van Ness s seminal paper Fundamental properties of fractional Brownian fields are then stated and proved The second central notion of this book is the so called local asymptotic self similarity in short lass which is a local version of self similarity defined in the third chapter A lengthy study is devoted to lass fields with finite variance Among these lass fields we find both Gaussian fields and non Gaussian fields called L vy fields The L vy fields can be viewed as bridges between fractional Brownian fields and stable self similar fields A further key issue concerns the identification of fractional parameters This is the raison d tre of the statistics chapter where generalized quadratic variations methods are mainly used for estimating fractional parameters Last but not least the simulation is addressed in the last chapter Unlike the previous issues the simulation of fractional fields is still an area of ongoing research The algorithms presented in this chapter are efficient but do not claim to close the debate *Long-Range Dependence and Self-Similarity* Vladas Pipiras,Murad S. Taqqu,2017-04-18 A modern and rigorous introduction to long range dependence and self similarity complemented by numerous more specialized up to date topics in this research area **Algebraic Curves over a Finite Field** J. W. P. Hirschfeld,Gabor Korchmaros,Fernando Torres,2013-03-25 This book provides an accessible and self contained introduction to the theory of algebraic curves over a finite field a subject that has been of fundamental importance to mathematics for many years and that has essential applications in areas such as finite geometry number theory error correcting codes and cryptology Unlike other books this one emphasizes the algebraic geometry rather than the function field approach to algebraic curves The authors begin by developing the general theory of curves over any field highlighting peculiarities occurring for positive characteristic and requiring of the reader only basic knowledge of algebra and geometry The special properties that a curve over a finite field can have are then discussed The geometrical theory of linear series is used to find estimates for the number of rational points on a curve following the theory of St hr and Voloch The approach of Hasse and Weil via zeta functions is explained and then attention turns to more advanced results a state of the art introduction to maximal curves over finite fields is provided a comprehensive account is given of the automorphism group of a curve and some applications to coding theory and finite geometry are described The book includes many examples and exercises It is an indispensable resource for researchers and the ideal textbook for graduate students **Analytic Theory of Global Bifurcation** Boris Buffoni,John Toland,2016-09-26 Rabinowitz s classical global bifurcation theory which concerns the study in the large of parameter dependent families of nonlinear equations uses topological methods that address the problem of continuous parameter dependence of solutions by showing that there are connected sets of solutions of global extent Even when the operators are infinitely differentiable in all the variables and parameters connectedness here cannot in general be replaced by path

connectedness However in the context of real analyticity there is an alternative theory of global bifurcation due to Dancer which offers a much stronger notion of parameter dependence This book aims to develop from first principles Dancer s global bifurcation theory for one parameter families of real analytic operators in Banach spaces It shows that there are globally defined continuous and locally real analytic curves of solutions In particular in the real analytic setting local analysis can lead to global consequences for example as explained in detail here those resulting from bifurcation from a simple eigenvalue Included are accounts of analyticity and implicit function theorems in Banach spaces classical results from the theory of finite dimensional analytic varieties and the links between these two and global existence theory Laying the foundations for more extensive studies of real analyticity in infinite dimensional problems and illustrating the theory with examples Analytic Theory of Global Bifurcation is intended for graduate students and researchers in pure and applied analysis      A Dynamical Systems Theory of Thermodynamics Wassim M. Haddad,2019-06-04 A brand new conceptual look at dynamical thermodynamics This book merges the two universalisms of thermodynamics and dynamical systems theory in a single compendium with the latter providing an ideal language for the former to develop a new and unique framework for dynamical thermodynamics In particular the book uses system theoretic ideas to bring coherence clarity and precision to an important and poorly understood classical area of science The dynamical systems formalism captures all of the key aspects of thermodynamics including its fundamental laws while providing a mathematically rigorous formulation for thermodynamical systems out of equilibrium by unifying the theory of mechanics with that of classical thermodynamics This book includes topics on nonequilibrium irreversible thermodynamics Boltzmann thermodynamics mass action kinetics and chemical reactions finite time thermodynamics thermodynamic critical phenomena with continuous and discontinuous phase transitions information theory continuum and stochastic thermodynamics and relativistic thermodynamics A Dynamical Systems Theory of Thermodynamics develops a postmodern theory of thermodynamics as part of mathematical dynamical systems theory The book establishes a clear nexus between thermodynamic irreversibility the second law of thermodynamics and the arrow of time to further unify discreteness and continuity indeterminism and determinism and quantum mechanics and general relativity in the pursuit of understanding the most fundamental property of the universe the entropic arrow of time      *Hidden Markov Processes* M. Vidyasagar,2014-08-24 This book explores important aspects of Markov and hidden Markov processes and the applications of these ideas to various problems in computational biology The book starts from first principles so that no previous knowledge of probability is necessary However the work is rigorous and mathematical making it useful to engineers and mathematicians even those not interested in biological applications A range of exercises is provided including drills to familiarize the reader with concepts and more advanced problems that require deep thinking about the theory Biological applications are taken from post genomic biology especially genomics and proteomics The topics examined include standard material such as the Perron Frobenius theorem transient and recurrent states hitting

probabilities and hitting times maximum likelihood estimation the Viterbi algorithm and the Baum Welch algorithm The book contains discussions of extremely useful topics not usually seen at the basic level such as ergodicity of Markov processes Markov Chain Monte Carlo MCMC information theory and large deviation theory for both i i d and Markov processes The book also presents state of the art realization theory for hidden Markov models Among biological applications it offers an in depth look at the BLAST Basic Local Alignment Search Technique algorithm including a comprehensive explanation of the underlying theory Other applications such as profile hidden Markov models are also explored *Control Theoretic Splines* Magnus Egerstedt,Clyde Martin,2009-12-07 Splines both interpolatory and smoothing have a long and rich history that has largely been application driven This book unifies these constructions in a comprehensive and accessible way drawing from the latest methods and applications to show how they arise naturally in the theory of linear control systems Magnus Egerstedt and Clyde Martin are leading innovators in the use of control theoretic splines to bring together many diverse applications within a common framework In this book they begin with a series of problems ranging from path planning to statistics to approximation Using the tools of optimization over vector spaces Egerstedt and Martin demonstrate how all of these problems are part of the same general mathematical framework and how they are all to a certain degree a consequence of the optimization problem of finding the shortest distance from a point to an affine subspace in a Hilbert space They cover periodic splines monotone splines and splines with inequality constraints and explain how any finite number of linear constraints can be added This book reveals how the many natural connections between control theory numerical analysis and statistics can be used to generate powerful mathematical and analytical tools This book is an excellent resource for students and professionals in control theory robotics engineering computer graphics econometrics and any area that requires the construction of curves based on sets of raw data **Genomic Signal Processing** Ilya Shmulevich,Edward R. Dougherty,2014-09-08 Genomic signal processing GSP can be defined as the analysis processing and use of genomic signals to gain biological knowledge and the translation of that knowledge into systems based applications that can be used to diagnose and treat genetic diseases Situated at the crossroads of engineering biology mathematics statistics and computer science GSP requires the development of both nonlinear dynamical models that adequately represent genomic regulation and diagnostic and therapeutic tools based on these models This book facilitates these developments by providing rigorous mathematical definitions and propositions for the main elements of GSP and by paying attention to the validity of models relative to the data Ilya Shmulevich and Edward Dougherty cover real world situations and explain their mathematical modeling in relation to systems biology and systems medicine Genomic Signal Processing makes a major contribution to computational biology systems biology and translational genomics by providing a self contained explanation of the fundamental mathematical issues facing researchers in four areas classification clustering network modeling and network intervention *Distributed Control of Robotic Networks* Francesco Bullo,Jorge Cortés,Sonia Martínez,2009-07-06

This self contained introduction to the distributed control of robotic networks offers a distinctive blend of computer science and control theory The book presents a broad set of tools for understanding coordination algorithms determining their correctness and assessing their complexity and it analyzes various cooperative strategies for tasks such as consensus rendezvous connectivity maintenance deployment and boundary estimation The unifying theme is a formal model for robotic networks that explicitly incorporates their communication sensing control and processing capabilities a model that in turn leads to a common formal language to describe and analyze coordination algorithms Written for first and second year graduate students in control and robotics the book will also be useful to researchers in control theory robotics distributed algorithms and automata theory The book provides explanations of the basic concepts and main results as well as numerous examples and exercises Self contained exposition of graph theoretic concepts distributed algorithms and complexity measures for processor networks with fixed interconnection topology and for robotic networks with position dependent interconnection topology Detailed treatment of averaging and consensus algorithms interpreted as linear iterations on synchronous networks Introduction of geometric notions such as partitions proximity graphs and multicenter functions Detailed treatment of motion coordination algorithms for deployment rendezvous connectivity maintenance and boundary estimation **Modern Anti-windup Synthesis** Luca Zaccarian,Andrew R. Teel,2011-07-11 This book provides a wide variety of state space based numerical algorithms for the synthesis of feedback algorithms for linear systems with input saturation Specifically it addresses and solves the anti windup problem presenting the objectives and terminology of the problem the mathematical tools behind anti windup algorithms and more than twenty algorithms for anti windup synthesis illustrated with examples Luca Zaccarian and Andrew Teel s modern method combining a state space approach with algorithms generated by solving linear matrix inequalities treats MIMO and SISO systems with equal ease The book aimed at control engineers as well as graduate students ranges from very simple anti windup construction to sophisticated anti windup algorithms for nonlinear systems Describes the fundamental objectives and principles behind anti windup synthesis for control systems with actuator saturation Takes a modern state space approach to synthesis that applies to both SISO and MIMO systems Presents algorithms as linear matrix inequalities that can be readily solved with widely available software Explains mathematical concepts that motivate synthesis algorithms Uses nonlinear performance curves to quantify performance relative to disturbances of varying magnitudes Includes anti windup algorithms for a class of Euler Lagrange nonlinear systems Traces the history of anti windup research through an extensive annotated bibliography **Totally Nonnegative Matrices** Shaun M. Fallat,Charles R. Johnson,2022-12-13 Totally nonnegative matrices arise in a remarkable variety of mathematical applications This book is a comprehensive and self contained study of the essential theory of totally nonnegative matrices defined by the nonnegativity of all subdeterminants It explores methodological background historical highlights of key ideas and specialized topics The book uses classical and ad hoc tools but a unifying theme is the elementary bidiagonal

factorization which has emerged as the single most important tool for this particular class of matrices Recent work has shown that bidiagonal factorizations may be viewed in a succinct combinatorial way leading to many deep insights Despite slow development bidiagonal factorizations along with determinants now provide the dominant methodology for understanding total nonnegativity The remainder of the book treats important topics such as recognition of totally nonnegative or totally positive matrices variation diminution spectral properties determinantal inequalities Hadamard products and completion problems associated with totally nonnegative or totally positive matrices The book also contains sample applications an up to date bibliography a glossary of all symbols used an index and related references **The Traveling Salesman Problem** David L. Applegate,Robert E. Bixby,Vašek Chvátal,William J. Cook,2011-09-19 This book presents the latest findings on one of the most intensely investigated subjects in computational mathematics the traveling salesman problem It sounds simple enough given a set of cities and the cost of travel between each pair of them the problem challenges you to find the cheapest route by which to visit all the cities and return home to where you began Though seemingly modest this exercise has inspired studies by mathematicians chemists and physicists Teachers use it in the classroom It has practical applications in genetics telecommunications and neuroscience The authors of this book are the same pioneers who for nearly two decades have led the investigation into the traveling salesman problem They have derived solutions to almost eighty six thousand cities yet a general solution to the problem has yet to be discovered Here they describe the method and computer code they used to solve a broad range of large scale problems and along the way they demonstrate the interplay of applied mathematics with increasingly powerful computing platforms They also give the fascinating history of the problem how it developed and why it continues to intrigue us *Mathematical Analysis of Deterministic and Stochastic Problems in Complex Media Electromagnetics* G. F. Roach,I. G. Stratis,A. N. Yannacopoulos,2012-03-04 Electromagnetic complex media are artificial materials that affect the propagation of electromagnetic waves in surprising ways not usually seen in nature Because of their wide range of important applications these materials have been intensely studied over the past twenty five years mainly from the perspectives of physics and engineering But a body of rigorous mathematical theory has also gradually developed and this is the first book to present that theory Designed for researchers and advanced graduate students in applied mathematics electrical engineering and physics this book introduces the electromagnetics of complex media through a systematic state of the art account of their mathematical theory The book combines the study of well posedness homogenization and controllability of Maxwell equations complemented with constitutive relations describing complex media The book treats deterministic and stochastic problems both in the frequency and time domains It also covers computational aspects and scattering problems among other important topics Detailed appendices make the book self contained in terms of mathematical prerequisites and accessible to engineers and physicists as well as mathematicians **Auxiliary Signal Design for Failure Detection** Stephen L. Campbell,Ramine

Nikoukhah,2015-11-03 Many industries such as transportation and manufacturing use control systems to insure that parameters such as temperature or altitude behave in a desirable way over time For example pilots need assurance that the plane they are flying will maintain a particular heading An integral part of control systems is a mechanism for failure detection to insure safety and reliability This book offers an alternative failure detection approach that addresses two of the fundamental problems in the safe and efficient operation of modern control systems failure detection deciding when a failure has occurred and model identification deciding which kind of failure has occurred Much of the work in both categories has been based on statistical methods and under the assumption that a given system was monitored passively Campbell and Nikoukhah s book proposes an active multimodel approach It calls for applying an auxiliary signal that will affect the output so that it can be used to easily determine if there has been a failure and what type of failure it is This auxiliary signal must be kept small and often brief in duration in order not to interfere with system performance and to ensure timely detection of the failure The approach is robust and uses tools from robust control theory Unlike some approaches it is applicable to complex systems The authors present the theory in a rigorous and intuitive manner and provide practical algorithms for implementation of the procedures    **Stability and Control of Large-Scale Dynamical Systems** Wassim M. Haddad,Sergey G. Nersesov,2011-11-14 Modern complex large scale dynamical systems exist in virtually every aspect of science and engineering and are associated with a wide variety of physical technological environmental and social phenomena including aerospace power communications and network systems to name just a few This book develops a general stability analysis and control design framework for nonlinear large scale interconnected dynamical systems and presents the most complete treatment on vector Lyapunov function methods vector dissipativity theory and decentralized control architectures Large scale dynamical systems are strongly interconnected and consist of interacting subsystems exchanging matter energy or information with the environment The sheer size or dimensionality of these systems necessitates decentralized analysis and control system synthesis methods for their analysis and design Written in a theorem proof format with examples to illustrate new concepts this book addresses continuous time discrete time and hybrid large scale systems It develops finite time stability and finite time decentralized stabilization thermodynamic modeling maximum entropy control and energy based decentralized control This book will interest applied mathematicians dynamical systems theorists control theorists and engineers and anyone seeking a fundamental and comprehensive understanding of large scale interconnected dynamical systems and control    *Optimization* Jan Brinkhuis,Vladimir Tikhomirov,2011-02-11 This self contained textbook is an informal introduction to optimization through the use of numerous illustrations and applications The focus is on analytically solving optimization problems with a finite number of continuous variables In addition the authors provide introductions to classical and modern numerical methods of optimization and to dynamic optimization The book s overarching point is that most problems may be solved by the direct application of the theorems of Fermat Lagrange and

Weierstrass The authors show how the intuition for each of the theoretical results can be supported by simple geometric figures They include numerous applications through the use of varied classical and practical problems Even experts may find some of these applications truly surprising A basic mathematical knowledge is sufficient to understand the topics covered in this book More advanced readers even experts will be surprised to see how all main results can be grounded on the Fermat Lagrange theorem The book can be used for courses on continuous optimization from introductory to advanced for any field for which optimization is relevant

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**Table of Contents Selfsimilar Processes Princeton Series In Applied Mathematics**

1. Understanding the eBook Selfsimilar Processes Princeton Series In Applied Mathematics
   - The Rise of Digital Reading Selfsimilar Processes Princeton Series In Applied Mathematics
   - Advantages of eBooks Over Traditional Books
2. Identifying Selfsimilar Processes Princeton Series In Applied Mathematics
   - Exploring Different Genres
   - Considering Fiction vs. Non-Fiction
   - Determining Your Reading Goals
3. Choosing the Right eBook Platform
   - Popular eBook Platforms
   - Features to Look for in an Selfsimilar Processes Princeton Series In Applied Mathematics
   - User-Friendly Interface
4. Exploring eBook Recommendations from Selfsimilar Processes Princeton Series In Applied Mathematics
   - Personalized Recommendations
   - Selfsimilar Processes Princeton Series In Applied Mathematics User Reviews and Ratings

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