

Stefano M. Iacus

Simulation and Inference for Stochastic Differential Equations

With R Examples

Simulation And Inference For Stochastic Differential Equations With R Examples 1st Edition

**Roberto Mariano,Til
Schuermann,Melvyn J. Weeks**



Simulation And Inference For Stochastic Differential Equations With R Examples 1st Edition:

Simulation and Inference for Stochastic Differential Equations Stefano M. Iacus, 2009-04-27 This book covers a highly relevant and timely topic that is of wide interest especially in finance engineering and computational biology The introductory material on simulation and stochastic differential equation is very accessible and will prove popular with many readers While there are several recent texts available that cover stochastic differential equations the concentration here on inference makes this book stand out No other direct competitors are known to date With an emphasis on the practical implementation of the simulation and estimation methods presented the text will be useful to practitioners and students with minimal mathematical background What's more because of the many R programs the information here is appropriate for many mathematically well educated practitioners too

Numerical Solution of Stochastic Differential Equations with Jumps in Finance Eckhard Platen, Nicola Bruti-Liberati, 2010-07-23 In financial and actuarial modeling and other areas of application stochastic differential equations with jumps have been employed to describe the dynamics of various state variables The numerical solution of such equations is more complex than that of those only driven by Wiener processes described in Kloeden Platen Numerical Solution of Stochastic Differential Equations 1992 The present monograph builds on the above mentioned work and provides an introduction to stochastic differential equations with jumps in both theory and application emphasizing the numerical methods needed to solve such equations It presents many new results on higher order methods for scenario and Monte Carlo simulation including implicit predictor corrector extrapolation Markov chain and variance reduction methods stressing the importance of their numerical stability Furthermore it includes chapters on exact simulation estimation and filtering Besides serving as a basic text on quantitative methods it offers ready access to a large number of potential research problems in an area that is widely applicable and rapidly expanding Finance is chosen as the area of application because much of the recent research on stochastic numerical methods has been driven by challenges in quantitative finance Moreover the volume introduces readers to the modern benchmark approach that provides a general framework for modeling in finance and insurance beyond the standard risk neutral approach It requires undergraduate background in mathematical or quantitative methods is accessible to a broad readership including those who are only seeking numerical recipes and includes exercises that help the reader develop a deeper understanding of the underlying mathematics

Forecasting High-Frequency Volatility Shocks Holger Kömm, 2016-02-08 This thesis presents a new strategy that unites qualitative and quantitative mass data in form of text news and tick by tick asset prices to forecast the risk of upcoming volatility shocks Holger Kömm embeds the proposed strategy in a monitoring system using first a sequence of competing estimators to compute the unobservable volatility second a new two state Markov switching mixture model for autoregressive and zero inflated time series to identify structural breaks in a latent data generation process and third a selection of competing pattern recognition algorithms to classify the potential information embedded in unexpected but

public observable text data in shock and nonshock information The monitor is trained tested and evaluated on a two year survey on the prime standard assets listed in the indices DAX MDAX SDAX and TecDAX *Simulation and Inference for Stochastic Processes with YUIMA* Stefano M. Iacus, Nakahiro Yoshida, 2018-06-01 The YUIMA package is the first comprehensive R framework based on S4 classes and methods which allows for the simulation of stochastic differential equations driven by Wiener process Levy processes or fractional Brownian motion as well as CARMA COGARCH and Point processes The package performs various central statistical analyses such as quasi maximum likelihood estimation adaptive Bayes estimation structural change point analysis hypotheses testing asynchronous covariance estimation lead lag estimation LASSO model selection and so on YUIMA also supports stochastic numerical analysis by fast computation of the expected value of functionals of stochastic processes through automatic asymptotic expansion by means of the Malliavin calculus All models can be multidimensional multiparametric or non parametric The book explains briefly the underlying theory for simulation and inference of several classes of stochastic processes and then presents both simulation experiments and applications to real data Although these processes have been originally proposed in physics and more recently in finance they are becoming popular also in biology due to the fact the time course experimental data are now available The YUIMA package available on CRAN can be freely downloaded and this companion book will make the user able to start his or her analysis from the first page *Stochastic Processes with Applications* Antonio Di Crescenzo, Claudio Macci, Barbara Martinucci, 2019-11-28 Stochastic processes have wide relevance in mathematics both for theoretical aspects and for their numerous real world applications in various domains They represent a very active research field which is attracting the growing interest of scientists from a range of disciplines This Special Issue aims to present a collection of current contributions concerning various topics related to stochastic processes and their applications In particular the focus here is on applications of stochastic processes as models of dynamic phenomena in research areas certain to be of interest such as economics statistical physics queuing theory biology theoretical neurobiology and reliability theory Various contributions dealing with theoretical issues on stochastic processes are also included **Statistical Methods for Stochastic Differential Equations** Mathieu Kessler, Alexander Lindner, Michael Sorensen, 2012-05-17 The seventh volume in the SemStat series Statistical Methods for Stochastic Differential Equations presents current research trends and recent developments in statistical methods for stochastic differential equations Written to be accessible to both new students and seasoned researchers each self contained chapter starts with introductions to the topic at hand and builds gradually towards discussing recent research The book covers Wiener driven equations as well as stochastic differential equations with jumps including continuous time ARMA processes and COGARCH processes It presents a spectrum of estimation methods including nonparametric estimation as well as parametric estimation based on likelihood methods estimating functions and simulation techniques Two chapters are devoted to high frequency data Multivariate models are also considered including partially

observed systems asynchronous sampling tests for simultaneous jumps and multiscale diffusions Statistical Methods for Stochastic Differential Equations is useful to the theoretical statistician and the probabilist who works in or intends to work in the field as well as to the applied statistician or financial econometrician who needs the methods to analyze biological or financial time series **Simulation-based Inference in Econometrics** Roberto Mariano, Til Schuermann, Melvyn J.

Weeks, 2000-07-20 This substantial volume has two principal objectives First it provides an overview of the statistical foundations of Simulation based inference This includes the summary and synthesis of the many concepts and results extant in the theoretical literature the different classes of problems and estimators the asymptotic properties of these estimators as well as descriptions of the different simulators in use Second the volume provides empirical and operational examples of SBI methods Often what is missing even in existing applied papers are operational issues Which simulator works best for which problem and why This volume will explicitly address the important numerical and computational issues in SBI which are not covered comprehensively in the existing literature Examples of such issues are comparisons with existing tractable methods number of replications needed for robust results choice of instruments simulation noise and bias as well as efficiency loss in practice **From Elementary Probability to Stochastic Differential Equations with MAPLE®** Sasha

Cyganowski, Peter Kloeden, Jerzy Ombach, 2001-11-20 This is an introduction to probabilistic and statistical concepts necessary to understand the basic ideas and methods of stochastic differential equations Based on measure theory which is introduced as smoothly as possible it provides practical skills in the use of MAPLE in the context of probability and its applications It offers to graduates and advanced undergraduates an overview and intuitive background for more advanced studies *Advances in Intelligent Data Analysis XVII* Wouter Duivesteijn, Arno Siebes, Antti Ukkonen, 2018-10-10 This book

constitutes the conference proceedings of the 17th International Symposium on Intelligent Data Analysis which was held in October 2018 in s Hertogenbosch the Netherlands The traditional focus of the IDA symposium series is on end to end intelligent support for data analysis The 29 full papers presented in this book were carefully reviewed and selected from 65 submissions The papers cover all aspects of intelligent data analysis including papers on intelligent support for modeling and analyzing data from complex dynamical systems *Elements of Computational Statistics* James E. Gentle, 2006-04-18 Will

provide a more elementary introduction to these topics than other books available Gentle is the author of two other Springer books **A Primer for Unit Root Testing** K. Patterson, 2010-03-31 This book gives an authoritative overview of the literature on non stationarity integration and unit roots providing direction and guidance It also provides detailed examples to show how the techniques can be applied in practical situations and the pitfalls to avoid **Stochastic Modelling for**

Systems Biology, Third Edition Darren J. Wilkinson, 2018-12-07 Since the first edition of Stochastic Modelling for Systems Biology there have been many interesting developments in the use of likelihood free methods of Bayesian inference for complex stochastic models Having been thoroughly updated to reflect this this third edition covers everything necessary for a

good appreciation of stochastic kinetic modelling of biological networks in the systems biology context New methods and applications are included in the book and the use of R for practical illustration of the algorithms has been greatly extended There is a brand new chapter on spatially extended systems and the statistical inference chapter has also been extended with new methods including approximate Bayesian computation ABC Stochastic Modelling for Systems Biology Third Edition is now supplemented by an additional software library written in Scala described in a new appendix to the book New in the Third Edition New chapter on spatially extended systems covering the spatial Gillespie algorithm for reaction diffusion master equation models in 1 and 2 d along with fast approximations based on the spatial chemical Langevin equation Significantly expanded chapter on inference for stochastic kinetic models from data covering ABC including ABC SMC Updated R package including code relating to all of the new material New R package for parsing SBML models into simulatable stochastic Petri net models New open source software library written in Scala replicating most of the functionality of the R packages in a fast compiled strongly typed functional language Keeping with the spirit of earlier editions all of the new theory is presented in a very informal and intuitive manner keeping the text as accessible as possible to the widest possible readership An effective introduction to the area of stochastic modelling in computational systems biology this new edition adds additional detail and computational methods that will provide a stronger foundation for the development of more advanced courses in stochastic biological modelling

Статистический анализ и визуализация данных с помощью R Сергей Мостицкий, Владимир Шитиков, 2022-01-29 R R R R R <http://r.analytics.blogspot.com> R

A Course in Statistics with R Prabhanjan N. Tattar, Suresh Ramaiah, B. G. Manjunath, 2016-05-02 Integrates the theory and applications of statistics using R A Course in Statistics with R has been written to bridge the gap between theory and applications and explain how mathematical expressions are converted into R programs The book has been primarily designed as a useful companion for a Masters student during each semester of the course but will also help applied statisticians in revisiting the underpinnings of the subject With this dual goal in mind the book begins with R basics and quickly covers visualization and exploratory analysis Probability and statistical inference inclusive of classical nonparametric and Bayesian schools is developed with definitions motivations mathematical expression and R programs in a way which will help the reader to understand the mathematical development as well as R implementation Linear regression models experimental designs multivariate analysis and categorical data analysis are treated in a way which makes effective use of visualization techniques and the related statistical techniques underlying them through practical applications and hence helps the reader to achieve a clear understanding of the associated statistical models Key features Integrates R basics with statistical concepts Provides graphical presentations inclusive of mathematical expressions Aids understanding of limit theorems of probability with and without the simulation approach Presents detailed algorithmic development of statistical models from scratch Includes practical applications with over 50 data sets

Parameter Estimation in Fractional Diffusion Models

Kęstutis Kubilius, Yuliya Mishura, Kostiantyn Ralchenko, 2018-01-04 This book is devoted to parameter estimation in diffusion models involving fractional Brownian motion and related processes For many years now standard Brownian motion has been and still remains a popular model of randomness used to investigate processes in the natural sciences financial markets and the economy The substantial limitation in the use of stochastic diffusion models with Brownian motion is due to the fact that the motion has independent increments and therefore the random noise it generates is white i e uncorrelated However many processes in the natural sciences computer networks and financial markets have long term or short term dependences i e the correlations of random noise in these processes are non zero and slowly or rapidly decrease with time In particular models of financial markets demonstrate various kinds of memory and usually this memory is modeled by fractional Brownian diffusion Therefore the book constructs diffusion models with memory and provides simple and suitable parameter estimation methods in these models making it a valuable resource for all researchers in this field The book is addressed to specialists and researchers in the theory and statistics of stochastic processes practitioners who apply statistical methods of parameter estimation graduate and post graduate students who study mathematical modeling and statistics

Statistical Inference for Piecewise-deterministic Markov Processes Romain Azais, Florian Bouguet, 2018-07-31 Piecewise deterministic

Markov processes form a class of stochastic models with a sizeable scope of applications biology insurance neuroscience networks finance Such processes are defined by a deterministic motion punctuated by random jumps at random times and offer simple yet challenging models to study Nevertheless the issue of statistical estimation of the parameters ruling the jump mechanism is far from trivial Responding to new developments in the field as well as to current research interests and needs Statistical inference for piecewise deterministic Markov processes offers a detailed and comprehensive survey of state of the art results It covers a wide range of general processes as well as applied models The present book also dwells on statistics in the context of Markov chains since piecewise deterministic Markov processes are characterized by an embedded Markov chain corresponding to the position of the process right after the jumps

Bayesian Statistics and New Generations

Raffaele Argiento, Daniele Durante, Sara Wade, 2019-11-21 This book presents a selection of peer reviewed contributions to the fourth Bayesian Young Statisticians Meeting BAYSM 2018 held at the University of Warwick on 2 3 July 2018 The meeting provided a valuable opportunity for young researchers MSc students PhD students and postdocs interested in Bayesian statistics to connect with the broader Bayesian community The proceedings offer cutting edge papers on a wide range of topics in Bayesian statistics identify important challenges and investigate promising methodological approaches while also assessing current methods and stimulating applications The book is intended for a broad audience of statisticians and demonstrates how theoretical methodological and computational aspects are often combined in the Bayesian framework to successfully tackle complex problems

Stochastic Modelling for Systems Biology, Second Edition Darren J. Wilkinson, 2011-11-09 Since the first edition of Stochastic Modelling for Systems Biology there have been many interesting

developments in the use of likelihood free methods of Bayesian inference for complex stochastic models Re written to reflect this modern perspective this second edition covers everything necessary for a good appreciation of stochastic kinetic modelling of biological networks in the systems biology context Keeping with the spirit of the first edition all of the new theory is presented in a very informal and intuitive manner keeping the text as accessible as possible to the widest possible readership New in the Second Edition All examples have been updated to Systems Biology Markup Language Level 3 All code relating to simulation analysis and inference for stochastic kinetic models has been re written and re structured in a more modular way An ancillary website provides links resources errata and up to date information on installation and use of the associated R package More background material on the theory of Markov processes and stochastic differential equations providing more substance for mathematically inclined readers Discussion of some of the more advanced concepts relating to stochastic kinetic models such as random time change representations Kolmogorov equations Fokker Planck equations and the linear noise approximation Simple modelling of extrinsic and intrinsic noise An effective introduction to the area of stochastic modelling in computational systems biology this new edition adds additional mathematical detail and computational methods that will provide a stronger foundation for the development of more advanced courses in stochastic biological modelling

Mathematical Modeling and Computational Tools Somnath Bhattacharyya, Jitendra Kumar, Koeli Ghoshal, 2020-04-20 This book features original research papers presented at the International Conference on Computational and Applied Mathematics held at the Indian Institute of Technology Kharagpur India during November 23 25 2018 This book covers various topics under applied mathematics ranging from modeling of fluid flow numerical techniques to physical problems electrokinetic transport phenomenon graph theory and optimization stochastic modelling and machine learning It introduces the mathematical modeling of complicated scientific problems discusses micro and nanoscale transport phenomena recent development in sophisticated numerical algorithms with applications and gives an in depth analysis of complicated real world problems With contributions from internationally acclaimed academic researchers and experienced practitioners and covering interdisciplinary applications this book is a valuable resource for researchers and students in fields of mathematics statistics engineering and health care

Pattern Theory Ulf Grenander, Michael I. Miller, 2007 Pattern Theory provides a comprehensive and accessible overview of the modern challenges in signal data and pattern analysis in speech recognition computational linguistics image analysis and computer vision Aimed at graduate students in biomedical engineering mathematics computer science and electrical engineering with a good background in mathematics and probability the text includes numerous exercises and an extensive bibliography Additional resources including extended proofs selected solutions and examples are available on a companion website The book commences with a short overview of pattern theory and the basics of statistics and estimation theory Chapters 3 6 discuss the role of representation of patterns via condition structure Chapters 7 and 8 examine the second central component of pattern theory groups of geometric

transformation applied to the representation of geometric objects Chapter 9 moves into probabilistic structures in the continuum studying random processes and random fields indexed over subsets of $\mathbb{R}^n$ Chapters 10 and 11 continue with transformations and patterns indexed over the continuum Chapters 12 14 extend from the pure representations of shapes to the Bayes estimation of shapes and their parametric representation Chapters 15 and 16 study the estimation of infinite dimensional shape in the newly emergent field of Computational Anatomy Finally Chapters 17 and 18 look at inference exploring random sampling approaches for estimation of model order and parametric representing of shapes

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