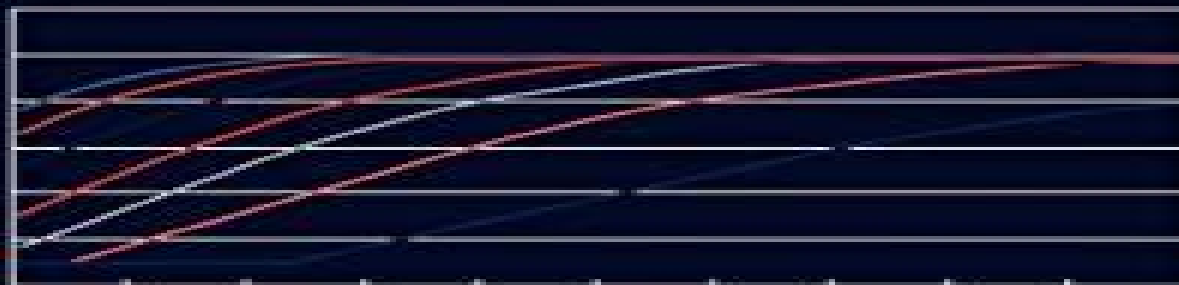


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# Limit Theorems in Change-Point Analysis

**Miklós Csörgő**  
and  
**Lajos Horváth**



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# Limit Theorems In Change Point Analysis

**M.S. Nikulin, Daniel  
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Limit Theorems in Change-point Analysis for Dependent Data Alexander Schmitz, 2011 *Probability, Statistics and Modelling in Public Health* M.S. Nikulin, Daniel Commenges, Catherine Huber-Carol, 2006-02-10 Probability Statistics and Modelling in Public Health consists of refereed contributions by expert biostatisticians that discuss various probabilistic and statistical models used in public health Many of them are based on the work of Marvin Zelen of the Harvard School of Public Health Topics discussed include models based on Markov and semi Markov processes multi state models models and methods in lifetime data analysis accelerated failure models design and analysis of clinical trials Bayesian methods pharmaceutical and environmental statistics degradation models epidemiological methods screening programs early detection of diseases and measurement and analysis of quality of life

Change Point Analysis for Time Series Lajos Horváth, Gregory Rice, 2024-05-11 This volume provides a comprehensive survey that covers various modern methods used for detecting and estimating change points in time series and their models The book primarily focuses on asymptotic theory and practical applications of change point analysis The methods discussed in the book go beyond the traditional change point methods for univariate and multivariate series It also explores techniques for handling heteroscedastic series high dimensional series and functional data While the primary emphasis is on retrospective change point analysis the book also presents sequential on line methods for detecting change points in real time scenarios Each chapter in the book includes multiple data examples that illustrate the practical application of the developed results These examples cover diverse fields such as economics finance environmental studies and health data analysis To reinforce the understanding of the material each chapter concludes with several exercises Additionally the book provides a discussion of background literature allowing readers to explore further resources for in depth knowledge on specific topics Overall Change Point Analysis for Time Series offers a broad and informative overview of modern methods in change point analysis making it a valuable resource for researchers practitioners and students interested in analyzing and modeling time series data

**Limit Theorems for Randomly Stopped Stochastic Processes** Dmitrii Sergeevich Sil'vestrov, 2004 Limit theorems for stochastic processes are an important part of probability theory and mathematical statistics and one model that has attracted the attention of many researchers working in the area is that of limit theorems for randomly stopped stochastic processes This volume is the first to present a state of the art overview of this field with many of the results published for the first time It covers the general conditions as well as the basic applications of the theory and it covers and demystifies the vast and technically demanding Russian literature in detail A survey of the literature and an extended bibliography of works in the area are also provided The coverage is thorough streamlined and arranged according to difficulty for use as an upper level text if required It is an essential reference for theoretical and applied researchers in the fields of probability and statistics that will contribute to the continuing extensive studies in the area and remain relevant for years to come Estimations And Tests In Change-point Models Odile Pons, 2018-05-30 This is a solid mathematical treatment of some topics in the analysis of change point models The book is intended for graduate students and scientific researchers using statistics in practice zbMATH This book provides a detailed exposition of the specific properties of methods of estimation and test in a wide range of models with changes They include parametric and nonparametric models for samples series point processes and diffusion processes with changes at the threshold of variables or at a time or an index of sampling The book contains many new results and fills a gap in statistics literature where the asymptotic properties of the estimators and test statistics in singular models are not sufficiently developed It is suitable for graduate students and scientific researchers working in the industry governmental laboratories and academia Dependence in Probability and Statistics Paul Doukhan, Gabriel Lang, Donatas Surgailis, Gilles Teyssi re, 2010-07-23 This account of recent works on weakly dependent long memory and multifractal processes introduces new dependence measures for studying complex stochastic systems and includes other topics such as the dependence structure of max stable processes *Asymptotic Methods in Probability and Statistics* B. Szyszkowicz, 1998-10-29 One of the aims of the conference on which this book is based was to provide a platform for the exchange of recent findings and new ideas inspired by the so called Hungarian construction and other approximate methodologies This volume of 55 papers is dedicated to Mikl s Cs rg a co founder of the Hungarian construction school by the invited speakers and contributors to ICAMPS 97 This excellent treatise reflects the many developments in this field while pointing to new directions to be explored An unequalled contribution to research in probability and statistics **Statistics and Simulation** J rgen Pilz, Dieter Rasch, Viatcheslav B. Melas, Karl Moder, 2018-05-17 This volume features original contributions and invited review articles on mathematical statistics statistical simulation and experimental design The selected peer reviewed contributions originate from the 8th International Workshop on Simulation held in Vienna in 2015 The book is intended for mathematical statisticians Ph D students and statisticians working in medicine engineering pharmacy psychology agriculture and other related fields The International Workshops on Simulation are devoted to

statistical techniques in stochastic simulation data collection design of scientific experiments and studies representing broad areas of interest The first 6 workshops took place in St Petersburg Russia in 1994 2009 and the 7th workshop was held in Rimini Italy in 2013

*The Mathematics of the Uncertain* Eduardo Gil,Eva Gil,Juan Gil,María Ángeles Gil,2018-02-28 This book is a tribute to Professor Pedro Gil who created the Department of Statistics OR and TM at the University of Oviedo and a former President of the Spanish Society of Statistics and OR SEIO In more than eighty original contributions it illustrates the extent to which Mathematics can help manage uncertainty a factor that is inherent to real life Today it goes without saying that in order to model experiments and systems and to analyze related outcomes and data it is necessary to consider formal ideas and develop scientific approaches and techniques for dealing with uncertainty Mathematics is crucial in this endeavor as this book demonstrates As Professor Pedro Gil highlighted twenty years ago there are several well known mathematical branches for this purpose including Mathematics of chance Probability and Statistics Mathematics of communication Information Theory and Mathematics of imprecision Fuzzy Sets Theory and others These branches often intertwine since different sources of uncertainty can coexist and they are not exhaustive While most of the papers presented here address the three aforementioned fields some hail from other Mathematical disciplines such as Operations Research others in turn put the spotlight on real world studies and applications The intended audience of this book is mainly statisticians mathematicians and computer scientists but practitioners in these areas will certainly also find the book a very interesting read

*Stochastic Models, Statistics and Their Applications* Ansgar Steland,Ewaryst Rafajłowicz,Ostap Okhrin,2019-10-15 This volume presents selected and peer reviewed contributions from the 14th Workshop on Stochastic Models Statistics and Their Applications held in Dresden Germany on March 6 8 2019 Addressing the needs of theoretical and applied researchers alike the contributions provide an overview of the latest advances and trends in the areas of mathematical statistics and applied probability and their applications to high dimensional statistics econometrics and time series analysis statistics for stochastic processes statistical machine learning big data and data science random matrix theory quality control change point analysis and detection finance copulas survival analysis and reliability sequential experiments empirical processes and microsimulations As the book demonstrates stochastic models and related statistical procedures and algorithms are essential to more comprehensively understanding and solving present day problems arising in e g the natural sciences machine learning data science engineering image analysis genetics econometrics and finance

*Change-Point Analysis in Nonstationary Stochastic Models* Boris Brodsky,2016-12-12 This book covers the development of methods for detection and estimation of changes in complex systems These systems are generally described by nonstationary stochastic models which comprise both static and dynamic regimes linear and nonlinear dynamics and constant and time variant structures of such systems It covers both retrospective and sequential problems particularly theoretical methods of optimal detection Such methods are constructed and their characteristics are analyzed both theoretically and experimentally Suitable

for researchers working in change point analysis and stochastic modelling the book includes theoretical details combined with computer simulations and practical applications Its rigorous approach will be appreciated by those looking to delve into the details of the methods as well as those looking to apply them      *Robustness and Complex Data Structures* Claudia Becker,Roland Fried,Sonja Kuhnt,2014-07-08 This Festschrift in honour of Ursula Gather s 60th birthday deals with modern topics in the field of robust statistical methods especially for time series and regression analysis and with statistical methods for complex data structures The individual contributions of leading experts provide a textbook style overview of the topic supplemented by current research results and questions The statistical theory and methods in this volume aim at the analysis of data which deviate from classical stringent model assumptions which contain outlying values and or have a complex structure Written for researchers as well as master and PhD students with a good knowledge of statistics      **Statistics in the Health Sciences** Albert Vexler,Alan Hutson,2018-01-19 This very informative book introduces classical and novel statistical methods that can be used by theoretical and applied biostatisticians to develop efficient solutions for real world problems encountered in clinical trials and epidemiological studies The authors provide a detailed discussion of methodological and applied issues in parametric semi parametric and nonparametric approaches including computationally extensive data driven techniques such as empirical likelihood sequential procedures and bootstrap methods Many of these techniques are implemented using popular software such as R and SAS Vlad Dragalin Professor Johnson and Johnson Spring House PA It is always a pleasure to come across a new book that covers nearly all facets of a branch of science one thought was so broad so diverse and so dynamic that no single book could possibly hope to capture all of the fundamentals as well as directions of the field The topics within the book s purview fundamentals of measure theoretic probability parametric and non parametric statistical inference central limit theorems basics of martingale theory Monte Carlo methods sequential analysis sequential change point detection are all covered with inspiring clarity and precision The authors are also very thorough and avail themselves of the most recent scholarship They provide a detailed account of the state of the art and bring together results that were previously scattered across disparate disciplines This makes the book more than just a textbook it is a panoramic companion to the field of Biostatistics The book is self contained and the concise but careful exposition of material makes it accessible to a wide audience This is appealing to graduate students interested in getting into the field and also to professors looking to design a course on the subject Aleksey S Polunchenko Department of Mathematical Sciences State University of New York at Binghamton This book should be appropriate for use both as a text and as a reference This book delivers a ready to go well structured product to be employed in developing advanced courses In this book the readers can find classical and new theoretical methods open problems and new procedures The book presents biostatistical results that are novel to the current set of books on the market and results that are even new with respect to the modern scientific literature Several of these results can be found only in this book      Copulae and Multivariate

Probability Distributions in Finance Alexandra Dias, Mark Salmon, Chris Adcock, 2013-08-21 Portfolio theory and much of asset pricing as well as many empirical applications depend on the use of multivariate probability distributions to describe asset returns. Traditionally this has meant the multivariate normal or Gaussian distribution. More recently theoretical and empirical work in financial economics has employed the multivariate Student and other distributions which are members of the elliptically symmetric class. There is also a growing body of work which is based on skew elliptical distributions. These probability models all exhibit the property that the marginal distributions differ only by location and scale parameters or are restrictive in other respects. Very often such models are not supported by the empirical evidence that the marginal distributions of asset returns can differ markedly. Copula theory is a branch of statistics which provides powerful methods to overcome these shortcomings. This book provides a synthesis of the latest research in the area of copulae as applied to finance and related subjects such as insurance. Multivariate non Gaussian dependence is a fact of life for many problems in financial econometrics. This book describes the state of the art in tools required to deal with these observed features of financial data. This book was originally published as a special issue of the European Journal of Finance.

Bayesian Inference in Wavelet-Based Models Peter Müller, Brani Vidakovic, 2012-12-06 This volume presents an overview of Bayesian methods for inference in the wavelet domain. The papers in this volume are divided into six parts. The first two papers introduce basic concepts. Chapters in Part II explore different approaches to prior modeling using independent priors. Papers in the Part III discuss decision theoretic aspects of such prior models. In Part IV some aspects of prior modeling using priors that account for dependence are explored. Part V considers the use of 2 dimensional wavelet decomposition in spatial modeling. Chapters in Part VI discuss the use of empirical Bayes estimation in wavelet based models. Part VII concludes the volume with a discussion of case studies using wavelet based Bayesian approaches. The cooperation of all contributors in the timely preparation of their manuscripts is greatly recognized. We decided early on that it was important to referee and critically evaluate the papers which were submitted for inclusion in this volume. For this substantial task we relied on the service of numerous referees to whom we are most indebted. We are also grateful to John Kimmel and the Springer Verlag referees for considering our proposal in a very timely manner. Our special thanks go to our spouses Gautami and Draga for their support.

Advances In Statistical Inference For Processes Driven By Fractional Processes: Inference For Fractional Processes B L S Prakasa Rao, 2025-07-08 One of the important problems in studying stochastic phenomena is to develop stochastic models and understand their implications behind the phenomenon. Long range dependence is an important stochastic phenomena and it needs study of special type of stochastic processes for modelling. My earlier book on Statistical Inference for Fractional Diffusion Processes 2010 dealt with several aspects for modelling by fractional Brownian motion. This book will contain my work on parametric and nonparametric inference for processes driven by fractional processes such as fractional Brownian motion, mixed fractional Brownian motion, sub fractional Brownian motion, alpha stable noise, fractional Levy process and

Gaussian processes      Financial Statistics and Mathematical Finance Ansgar Steland, 2012-06-21 Mathematical finance has grown into a huge area of research which requires a lot of care and a large number of sophisticated mathematical tools. Mathematically rigorous and yet accessible to advanced level practitioners and mathematicians alike, it considers various aspects of the application of statistical methods in finance and illustrates some of the many ways that statistical tools are used in financial applications. *Financial Statistics and Mathematical Finance* Provides an introduction to the basics of financial statistics and mathematical finance. Explains the use and importance of statistical methods in econometrics and financial engineering. Illustrates the importance of derivatives and calculus to aid understanding in methods and results. Looks at advanced topics such as martingale theory, stochastic processes and stochastic integration. Features examples throughout to illustrate applications in mathematical and statistical finance. Is supported by an accompanying website featuring R code and data sets. *Financial Statistics and Mathematical Finance* introduces the financial methodology and the relevant mathematical tools in a style that is both mathematically rigorous and yet accessible to advanced level practitioners and mathematicians alike. Both graduate students and researchers in statistics, finance, econometrics and business administration will benefit from this book.      **Handbook of Discrete-Valued Time Series** Richard A. Davis, Scott H. Holan, Robert Lund, Nalini Ravishanker, 2016-01-06 *Model a Wide Range of Count Time Series*. *Handbook of Discrete Valued Time Series* presents state of the art methods for modeling time series of counts and incorporates frequentist and Bayesian approaches for discrete valued spatio temporal data and multivariate data. While the book focuses on time series of counts, some of the techniques discussed can be applied to other types of data.      *Biogeography* Glen MacDonald, 2002-02-28 *Biogeography* illustrates how environment, space and time interact to control the large scale distribution of organisms. This book can be used for these courses which can be offered in either department. This title includes the key concepts related to the study of vegetation and animal distributions and the human impact on these distributions.



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