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Empirical Process Techniques for Dependent Data

BIRKHÄUSER



Empirical Process Techniques For Dependent Data

**Jan Beirlant, Yuri Goegebeur, Johan
Segers, Jozef L. Teugels**



Empirical Process Techniques For Dependent Data:

Empirical Process Techniques for Dependent Data Herold Dehling, Thomas Mikosch, Michael Sørensen, 2012-12-06
Empirical process techniques for independent data have been used for many years in statistics and probability theory. These techniques have proved very useful for studying asymptotic properties of parametric as well as non-parametric statistical procedures. Recently the need to model the dependence structure in data sets from many different subject areas such as finance, insurance and telecommunications has led to new developments concerning the empirical distribution function and the empirical process for dependent, mostly stationary sequences. This work gives an introduction to this new theory of empirical process techniques which has so far been scattered in the statistical and probabilistic literature and surveys the most recent developments in various related fields. Key features: A thorough and comprehensive introduction to the existing theory of empirical process techniques for dependent data. Accessible surveys by leading experts of the most recent developments in various related fields. Examines empirical process techniques for dependent data useful for studying parametric and non-parametric statistical procedures. Comprehensive bibliographies. An overview of applications in various fields related to empirical processes: e.g. spectral analysis of time series, the bootstrap for stationary sequences, extreme value theory and the empirical process for mixing dependent observations including the case of strong dependence. To date this book is the only comprehensive treatment of the topic in book literature. It is an ideal introductory text that will serve as a reference or resource for classroom use in the areas of statistics, time series analysis, extreme value theory, point process theory and applied probability theory. Contributors: P. Ango Nze, M. A. Arcones, I. Berkes, R. Dahlhaus, J. Dedecker, H. G. Dehling.

Empirical Process Techniques for Dependent Data Herold Dehling, Thomas Mikosch, Michael Sørensen, 2002-01-01

Introduction to Empirical Processes and Semiparametric Inference Michael R. Kosorok, 2007-12-29
The goal of this book is to introduce statisticians and other researchers with a background in mathematical statistics to empirical processes and semiparametric inference. These powerful research techniques are surprisingly useful for studying large sample properties of statistical estimates from realistically complex models as well as for developing new and proved approaches to statistical inference. This book is more of a textbook than a research monograph although a number of new results are presented. The level of the book is more introductory than the seminal work of van der Vaart and Wellner (1996). In fact another purpose of this work is to help readers prepare for the mathematically advanced van der Vaart and Wellner text as well as for the semiparametric inference work of Bickel, Klaassen, Ritov and Wellner (1997). These two books along with Pollard (1990) and Chapters 19 and 25 of van der Vaart (1998) formulate a very complete and successful elucidation of modern empirical process methods. The present book owes much by the way of inspiration, concept and notation to these previous works. What is perhaps new is the gradual yet rigorous and unified way this book introduces the reader to the field. *Functional Gaussian Approximation for Dependent Structures* Florence Merlevède, Magda Peligrad, Sergey Utev, 2019-02-14
Functional Gaussian

Approximation for Dependent Structures develops and analyses mathematical models for phenomena that evolve in time and influence each other. It provides a better understanding of the structure and asymptotic behaviour of stochastic processes. Two approaches are taken. Firstly, the authors present tools for dealing with the dependent structures used to obtain normal approximations. Secondly, they apply normal approximations to various examples. The main tools consist of inequalities for dependent sequences of random variables leading to limit theorems including the functional central limit theorem and functional moderate deviation principle. The results point out large classes of dependent random variables which satisfy invariance principles making possible the statistical study of data coming from stochastic processes both with short and long memory. The dependence structures considered throughout the book include the traditional mixing structures, martingale-like structures and weakly negatively dependent structures which link the notion of mixing to the notions of association and negative dependence. Several applications are carefully selected to exhibit the importance of the theoretical results. They include random walks in random scenery and determinantal processes. In addition, due to their importance in analysing new data in economics, linear processes with dependent innovations will also be considered and analysed.

Statistical Inference for Discrete Time Stochastic Processes M. B. Rajarshi, 2014-07-08. This work is an overview of statistical inference in stationary discrete time stochastic processes. Results in the last fifteen years, particularly on non-Gaussian sequences and semi-parametric and non-parametric analysis, have been reviewed. The first chapter gives a background of results on martingales and strong mixing sequences which enable us to generate various classes of CAN estimators in the case of dependent observations. Topics discussed include inference in Markov chains and extensions of Markov chains such as Raftery's Mixture Transition Density model and Hidden Markov chains and extensions of ARMA models with a Binomial, Poisson, Geometric, Exponential, Gamma, Weibull, Lognormal, Inverse Gaussian and Cauchy as stationary distributions. It further discusses applications of semi-parametric methods of estimation such as conditional least squares and estimating functions in stochastic models. Construction of confidence intervals based on estimating functions is discussed in some detail. Kernel-based estimation of joint density and conditional expectation are also discussed. Bootstrap and other resampling procedures for dependent sequences such as Markov chains, Markov sequences, linear autoregressive moving average sequences, block-based bootstrap for stationary sequences and other block-based procedures are also discussed in some detail. This work can be useful for researchers interested in knowing developments in inference in discrete time stochastic processes. It can be used as a material for advanced level research students.

Large Sample Techniques for Statistics Jiming Jiang, 2010-06-30. In a way, the world is made up of approximations and surely there is no exception in the world of statistics. In fact, approximations, especially large sample approximations, are very important parts of both theoretical and applied statistics. The Gaussian distribution, also known as the normal distribution, is merely one such example due to the well-known central limit theorem. Large sample techniques provide solutions to many practical problems; they simplify our solutions.

to difficult sometimes intractable problems they justify our solutions and they guide us to directions of improvements On the other hand just because large sample approximations are used everywhere and every day it does not guarantee that they are used properly and when the techniques are misused there may be serious consequences

2 Example 1 Asymptotic distribution Likelihood ratio test LRT is one of the fundamental techniques in statistics It is well known that in the 2 standard situation the asymptotic null distribution of the LRT is with the degrees of freedom equal to the difference between the dimensions defined as the numbers of free parameters of the two nested models being compared e.g Rice 1995 pp 310 This might lead to a wrong impression that the 2 asymptotic null distribution of the LRT is always A similar mistake 2 might take place when dealing with Pearson's test the asymptotic distribution of Pearson's test is not always e.g Moore 1978

Contemporary Developments in Statistical Theory Soumendra Lahiri, Anton Schick, Ashis SenGupta, T.N. Sriram, 2013-12-02 This volume highlights Prof Hira Koul's achievements in many areas of Statistics including Asymptotic theory of statistical inference Robustness Weighted empirical processes and their applications Survival Analysis Nonlinear time series and Econometrics among others Chapters are all original papers that explore the frontiers of these areas and will assist researchers and graduate students working in Statistics Econometrics and related areas Prof Hira Koul was the first Ph.D student of Prof Peter Bickel His distinguished career in Statistics includes the receipt of many prestigious awards including the Senior Humboldt award 1995 and dedicated service to the profession through editorial work for journals and through leadership roles in professional societies notably as the past president of the International Indian Statistical Association Prof Hira Koul has graduated close to 30 Ph.D students and made several seminal contributions in about 125 innovative research papers The long list of his distinguished collaborators is represented by the contributors to this volume

Contemporaneous Event Studies in Corporate Finance Jau-Lian Jeng, 2020-11-03 Providing a comprehensive overview of event study methodology in the field of corporate finance this book discusses how traditional methods verify the significance and insignificance of events in statistical sampling and emphasize possible deviation from the statistics of interest However the author illustrates the flaws of conventional methodology and proposes alternative methods which can be used for a more robust study of estimating normal and abnormal returns Traditional methods fail to recognize that the importance of an event will also influence the frequency of the occurrence of the event and consequently they produce subjective sampling results This book highlights contemporaneous recursive methods which can be used to track down normal returns and avoid arbitrary determination for the estimation and event period In addition the author offers an alternative monitoring scheme to identify the events of concern Addressing a need for more objective sampling methods in corporate finance event studies this timely book will appeal to students and academics researching financial econometrics and time series analysis corporate finance and capital markets

Asymptotic Theory of Weakly Dependent Random Processes Emmanuel Rio, 2017-04-13 Ces notes sont consacrées aux inégalités et aux théorèmes limites classiques pour les suites de variables aléatoires absolument régulières

ou fortement m langeantes au sens de Rosenblatt Le but poursuivi est de donner des outils techniques pour l tude des processus faiblement d pendants aux statisticiens ou aux probabilistes travaillant sur ces processus **High Dimensional Probability** Evarist Giné,2006 *Time Series Analysis: Methods and Applications* ,2012-05-18 The field of statistics not only affects all areas of scientific activity but also many other matters such as public policy It is branching rapidly into so many different subjects that a series of handbooks is the only way of comprehensively presenting the various aspects of statistical methodology applications and recent developments The Handbook of Statistics is a series of self contained reference books Each volume is devoted to a particular topic in statistics with Volume 30 dealing with time series The series is addressed to the entire community of statisticians and scientists in various disciplines who use statistical methodology in their work At the same time special emphasis is placed on applications oriented techniques with the applied statistician in mind as the primary audience Comprehensively presents the various aspects of statistical methodology Discusses a wide variety of diverse applications and recent developments Contributors are internationally renowned experts in their respective areas

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 **Extreme Value Theory** Laurens de Haan,Ana Ferreira,2007-12-09 Extreme Value Theory offers a careful coherent exposition of the subject starting from the probabilistic and mathematical foundations and proceeding to the statistical theory The book covers both the classical one dimensional case as well as finite and infinite dimensional settings All the main topics at the heart of the subject are introduced in a systematic fashion so that in the final chapter even the most recent developments in the theory can be understood The treatment is geared toward applications The presentation concentrates on the probabilistic and statistical aspects of extreme values such as limiting results domains of attraction and development of estimators without emphasizing related topics such as point processes empirical distribution

functions and Brownian motion An appendix on regular variation has been added since some required results in that area are not available in book form The usefulness of the statistical theory is shown by treating several case studies in detail The book is a thorough accessible self contained graduate level treatment of modern extreme value theory and some of its applications It is aimed at graduate students and researchers and requires only maturity in mathematics and statistics

Asymptotic Methods in Stochastics M. Csörgö,Lajos Horváth,Barbara Szyszkowicz,2004 Honoring over forty years of Miklos Csorgo s work in probability and statistics this title shows the state of the research This book covers such topics as path properties of stochastic processes weak convergence of random size sums almost sure stability of weighted maxima and procedures for detecting changes in statistical models

Contributions to Static and Time-varying Copula-based Modeling of Multivariate Association Martin Ruppert,2012 Putting a particular emphasis on nonparametric methods that rely on modern empirical process techniques the author contributes to the theory of static and time varying stochastic models for multivariate association based on the concept of copulas These functions enable a profound understanding of multivariate association which is pivotal for judging whether a large set of risky assets entails diversification effects or aggravates risk from an entrepreneurial point of view Since serial dependence is a stylized fact of financial time series an asymptotic theory for estimating the structure of association in this context is developed under weak assumptions A new measure of multivariate association based on a notion of distance to stochastic independence is introduced Asymptotic results as well as hypothesis tests are established which are directly applicable to important types of multivariate financial time series To ensure that risk management properly captures the current structure of association it is crucial to assess the constancy of the structure Therefore nonparametric tests for a constant copula with either a specified or unspecified change point candidate are derived The thesis concludes with a study of characterizations of association between non continuous random variables

Statistical Analysis of Extreme Values Rolf-Dieter Reiss,Michael Thomas,2007-06-21 This is a self contained introduction to parametric modeling exploratory analysis and statistical interference for extreme values as used in disciplines from hydrology to finance to environmental science Updated and expanded by 100 pages

Statistics of Extremes Jan Beirlant,Yuri Goegebeur,Johan Segers,Jozef L. Teugels,2006-03-17 Research in the statistical analysis of extreme values has flourished over the past decade new probability models inference and data analysis techniques have been introduced and new application areas have been explored Statistics of Extremes comprehensively covers a wide range of models and application areas including risk and insurance a major area of interest and relevance to extreme value theory Case studies are introduced providing a good balance of theory and application of each model discussed incorporating many illustrated examples and plots of data The last part of the book covers some interesting advanced topics including time series regression multivariate and Bayesian modelling of extremes the use of which has huge potential

Large Sample Inference For Long Memory Processes Donatas Surgailis,Hira L Koul,Liudas Giraitis,2012-04-27 Box and Jenkins 1970 made the idea of

obtaining a stationary time series by differencing the given possibly nonstationary time series popular Numerous time series in economics are found to have this property Subsequently Granger and Joyeux 1980 and Hosking 1981 found examples of time series whose fractional difference becomes a short memory process in particular a white noise while the initial series has unbounded spectral density at the origin i e exhibits long memory Further examples of data following long memory were found in hydrology and in network traffic data while in finance the phenomenon of strong dependence was established by dramatic empirical success of long memory processes in modeling the volatility of the asset prices and power transforms of stock market returns At present there is a need for a text from where an interested reader can methodically learn about some basic asymptotic theory and techniques found useful in the analysis of statistical inference procedures for long memory processes This text makes an attempt in this direction The authors provide in a concise style a text at the graduate level summarizing theoretical developments both for short and long memory processes and their applications to statistics The book also contains some real data applications and mentions some unsolved inference problems for interested researchers in the field a

Weak Dependence: With Examples and Applications Jérôme Dedecker, Paul Doukhan, Gabriel Lang, José Rafael Leon, Sana Louhichi, Clémentine Prieur, 2007-07-29 This book develops Doukhan Louhichi s 1999 idea to measure asymptotic independence of a random process The authors who helped develop this theory propose examples of models fitting such conditions stable Markov chains dynamical systems or more complicated models nonlinear non Markovian and heteroskedastic models with infinite memory Applications are still needed to develop a method of analysis for nonlinear times series and this book provides a strong basis for additional studies

Dependence in Probability and Statistics Patrice Bertail, Paul Doukhan, Philippe Soulier, 2006-09-24 This book gives an account of recent developments in the field of probability and statistics for dependent data It covers a wide range of topics from Markov chain theory and weak dependence with an emphasis on some recent developments on dynamical systems to strong dependence in times series and random fields There is a section on statistical estimation problems and specific applications The book is written as a succession of papers by field specialists alternating general surveys mostly at a level accessible to graduate students in probability and statistics and more general research papers mainly suitable to researchers in the field

Enjoying the Track of Phrase: An Emotional Symphony within **Empirical Process Techniques For Dependent Data**

In a global eaten by displays and the ceaseless chatter of fast interaction, the melodic beauty and emotional symphony created by the prepared term usually fade in to the back ground, eclipsed by the relentless sound and disturbances that permeate our lives. Nevertheless, situated within the pages of **Empirical Process Techniques For Dependent Data** a charming literary treasure full of raw emotions, lies an immersive symphony waiting to be embraced. Crafted by a wonderful musician of language, this interesting masterpiece conducts readers on a psychological journey, well unraveling the hidden tunes and profound impact resonating within each carefully crafted phrase. Within the depths with this emotional review, we will examine the book is main harmonies, analyze its enthralling writing fashion, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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