

Asymptotic Statistics By A W Van Der Vaart Cambridge Org

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Asymptotic Statistics Statistical Advances in the Biomedical Sciences Heavy Tailed Functional Time Series Stochastic Models, Statistics and Their Applications Bayesian Nonparametric Statistics Mobility, Meaning and Transformations of Things Journal of the American Statistical Association Probability and Mathematical Statistics Higher Order Semiparametric Frequentist Inference and the Profile Sampler Statistica Sinica Journal of Statistical Planning and Inference Neural Computation Fragmenting the Chieftain Stochastic Programming Methods for Comparing Two Crossing Hazard Functions Estimating Internal Link Loss Rates Using Active Network Tomography Inference for Partially Identified Econometric Models Journal of Guidance, Control, and Dynamics On Goodness-of-fit Tests of Semiparametric Models Penalized M-estimation for Partly Linear Transformation Models with Current Status Data A. W. van der Vaart Atanu Biswas Thomas Meinguet Ansgar Steland Ismaël Castillo Hans Peter Hahn Guang Cheng North-Holland Publishing Company Sasja van der Vaart-Verschoof RUSZCZYNSK Jun Sheng Bowei Xi Azeem M. Shaikh Bo Li Shuangge Ma

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this book is an introduction to the field of asymptotic statistics the treatment is both practical and mathematically rigorous in addition to most of the standard topics of an asymptotics course including likelihood inference m estimation the theory of asymptotic efficiency u statistics and rank procedures the book also presents recent research topics such as semiparametric models the bootstrap and empirical processes and their applications the topics are organized from the central idea of approximation by limit experiments which gives

the book one of its unifying themes this entails mainly the local approximation of the classical iid set up with smooth parameters by location experiments involving a single normally distributed observation thus even the standard subjects of asymptotic statistics are presented in a novel way suitable as a graduate or master s level statistics text this book will also give researchers an overview of research in asymptotic statistics

the most comprehensive and cutting edge guide to statistical applications in biomedical research with the increasing use of biotechnology in medical research and the sophisticated advances in computing it has become essential for practitioners in the biomedical sciences to be fully educated on the role statistics plays in ensuring the accurate analysis of research findings statistical advances in the biomedical sciences explores the growing value of statistical knowledge in the management and comprehension of medical research and more specifically provides an accessible introduction to the contemporary methodologies used to understand complex problems in the four major areas of modern day biomedical science clinical trials epidemiology survival analysis and bioinformatics composed of contributions from eminent researchers in the field this volume discusses the application of statistical techniques to various aspects of modern medical research and illustrates how these methods ultimately prove to be an indispensable part of proper data collection and analysis a structural uniformity is maintained across all chapters each beginning with an introduction that discusses general concepts and the biomedical problem under focus and is followed by specific details on the associated methods algorithms and applications in addition each chapter provides a summary of the main ideas and offers a concluding remarks section that presents novel ideas approaches and challenges for future research complete with detailed references and insight on the future directions of biomedical research statistical advances in the biomedical sciences provides vital statistical guidance to practitioners in the biomedical sciences while also introducing statisticians to new multidisciplinary frontiers of application this text is an excellent reference for graduate and phd level courses in various areas of biostatistics and the medical sciences and also serves as a valuable tool for medical researchers statisticians public health professionals and biostatisticians

the goal of this thesis is to treat the temporal tail dependence and the cross sectional tail dependence of heavy tailed functional time series functional time series are aimed at modelling spatio temporal phenomena for instance rain temperature pollution on a given geographical area with temporally dependent observations heavy tails mean that the series can exhibit much higher spikes than with gaussian distributions for instance in such cases second moments cannot be assumed to exist violating the basic assumption in standard functional data analysis based on the sequence of autocovariance operators as for random variables regular variation provides the mathematical backbone for a coherent theory of extreme values the main tools introduced in this thesis for a regularly varying functional time series are its tail process and its spectral process these objects capture all the aspects of the probability distribution of extreme values jointly over time and space the development of the tail and spectral process for heavy tailed functional time series is followed by three theoretical

applications the first application is a characterization of a variety of indices and objects describing the extremal behavior of the series the extremal index tail dependence coefficients the extremogram and the point process of extremes the second is the computation of an explicit expression of the tail and spectral processes for heavy tailed linear functional time series the third and final application is the introduction and the study of a model for the spatio temporal dependence for functional time series called maxima of moving maxima of continuous functions cm3 processes with the development of an estimation method

this volume presents contemporary research in stochastic modeling statistical inference and their applications and collects peer reviewed contributions presented at the 15th workshop on stochastic models statistics and their applications smsa 2024 held in delft the netherlands march 13 15 2024 it brings together a unique mix of authors working on theoretical and applied problems and addresses a wide variety of topics from the workshop s focus areas which included bayesian methods change point analysis computational statistics econometrics high dimensional nonparametric and spatial statistics statistical process monitoring statistics for stochastic processes and sequential and time series analysis the volume is structured in three parts covering stochastics and statistical theory statistical inference and machine learning and testing for patterns in data the contributions discuss highly active research topics such as strong approximation in high dimensions modeling and testing multivariate distributions the interplay and fusion of statistical ideas and machine learning approaches to handling discrete and ordinal data and detection of hidden patterns in data with applications to environmental science business and engineering

this up to date overview of bayesian nonparametric statistics provides both an introduction to the field and coverage of recent research topics including deep neural networks high dimensional models and multiple testing bernstein von mises theorems and variational bayes approximations many of which have previously only been accessible through research articles although bayesian posterior distributions are widely applied in astrophysics inverse problems genomics machine learning and elsewhere their theory is still only partially understood especially in complex settings such as nonparametric or semiparametric models here the available theory on the frequentist analysis of posterior distributions is outlined in terms of convergence rates limiting shape results and uncertainty quantification based on lecture notes for a course given at the st flour summer school in 2023 the book is aimed at researchers and graduate students in statistics and probability

things travel around the globe they are shipped as mass consumer goods or transported as souvenirs or gifts there are infinite ways for things to be mobile not only in the era of globalisation but since the beginning of time as the earliest traces of long distance trading show this book investigates the mobility of things from archaeological and anthropological perspectives material objects are characterised by temporal continuity embodying a prior existence with lingering effects yet the material continuity disguises the transformations they may undergo which only become evident upon closer examination objects are in perpetual flux

leaving visible traces of their age usage and previous life while travelling through time objects also circulate through space and their spatial mobility alters their meaning and use with respect to new cultural horizons as objects transform through time and space so does the value attributed to them mapping out itineraries of value in the realm of the material allows us to grasp the nature of a given social formation through the shape and meaning taken on by its valued stuff it also provides insights into the nature of materiality through the value ascribed to objects at a given point in time and space this edited volume brings together studies of material culture materiality and value with regard to the mobility of objects with the aim of tracing the ways in which societies constitute their valued objects and how the realm of the material reflects upon society

a scientific and educational journal not only for professional statisticians but also for economists business executives research directors government officials university professors and others who are seriously interested in the application of statistical methods to practical problems in the development of more useful methods and in the improvement of basic statistical data

fragmenting the chieftain presents the results of an in depth practice based archaeological analysis of the dutch and belgian elite graves and the burial practice through which they were created

brings together leading in the most important sub fields of stochastic programming to present a rigourous overview of basic models methods and applications of stochastic programming the text is intended for researchers students engineers and economists who encounter in their work optimization problems involving uncertainty

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Introduction

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