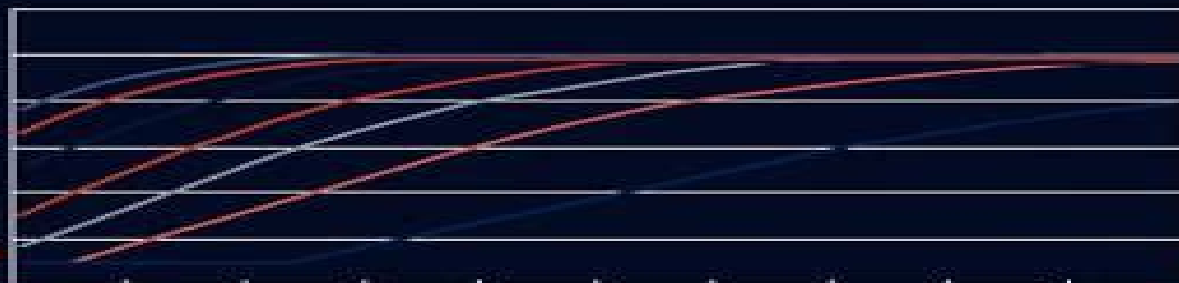


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# Limit Theorems in Change-Point Analysis

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



WILEY SERIES IN  
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# Limit Theorems In Change Point Analysis

**Chao Zhang**



## **Limit Theorems In Change Point Analysis:**

Limit Theorems in Change-Point Analysis Miklós Csörgő, Lajos Horváth, 1997-12-29 Change point problems arise in a variety of experimental and mathematical sciences as well as in engineering and health sciences This rigorously researched text provides a comprehensive review of recent probabilistic methods for detecting various types of possible changes in the distribution of chronologically ordered observations Further developing the already well established theory of weighted approximations and weak convergence the authors provide a thorough survey of parametric and non parametric methods regression and time series models together with sequential methods All but the most basic models are carefully developed with detailed proofs and illustrated by using a number of data sets Contains a thorough survey of The Likelihood Approach Non Parametric Methods Linear Models Dependent Observations This book is undoubtedly of interest to all probabilists and statisticians experimental and health scientists engineers and essential for those working on quality control and surveillance problems Foreword by David Kendall *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 Limit Theorems in Change-point Analysis for Dependent Data Alexander Schmitz, 2011 *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

*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

*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

**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

*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

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mechanisms      *SAS for Forecasting Time Series* John C. Brocklebank, David A. Dickey, 2003-07-14 Easy to read and comprehensive this book shows how the SAS System performs multivariate time series analysis and features the advanced SAS procedures STATSPACE ARIMA and SPECTRA The interrelationship of SAS ETS procedures is demonstrated with an accompanying discussion of how the choice of a procedure depends on the data to be analysed and the results desired Other topics covered include detecting sinusoidal components in time series models and performing bivariate correlation spectral analysis and comparing the results with the standard transfer function methodology The authors unique approach to integrating students in a variety of disciplines and industries Emphasis is on correct interpretation of output to draw meaningful conclusions The volume co published by SAS and JWS features both theory and practicality and accompanies a soon to be extensive library of SAS hands on manuals in a multitude of statistical areas The book can be used with a number of hardware specific computing machines including CMS Mac MVS Opem VMS Alpha Opmen VMS VAX OS 390 OS 2 UNIX and Windows

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*Shape and Shape Theory* D. G. Kendall, D. Barden, T. K. Carne, H. Le, 2009-09-25 *Shape and Shape Theory* D G Kendall Churchill College University of Cambridge UK D Barden Girton College University of Cambridge UK T K Carne King s College University of Cambridge UK H Le University of Nottingham UK The statistical theory of shape is a relatively new topic and is generating a great deal of interest and comment by statisticians engineers and computer scientists Mathematically shape is the geometrical information required to describe an object when location scale and rotational effects are removed The theory was pioneered by Professor David Kendall to solve practical problems concerning shape This text presents an elegant

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- A variety of topological and geometric invariants of these spaces
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