

# Lecture Notes in Statistics

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Masanobu Taniguchi

Higher Order Asymptotic  
Theory for Time Series Analysis



Springer-Verlag

# Higher Order Asymptotic Theory For Time Series Analysis

**Gilg U.H. Seeber, Brian J.  
Francis, Reinhold Hatzinger, Gabriela  
Steckel-Berger**

## **Higher Order Asymptotic Theory For Time Series Analysis:**

**Higher Order Asymptotic Theory for Time Series Analysis** Masanobu Taniguchi, 2012-12-06 The initial basis of this book was a series of my research papers that I listed in References I have many people to thank for the book's existence Regarding higher order asymptotic efficiency I thank Professors Kei Takeuchi and M Akahira for their many comments I used their concept of efficiency for time series analysis During the summer of 1983 I had an opportunity to visit The Australian National University and could elucidate the third order asymptotics of some estimators I express my sincere thanks to Professor E J Hannan for his warmest encouragement and kindness Multivariate time series analysis seems an important topic In 1986 I visited Center for Multivariate Analysis University of Pittsburgh I received a lot of impact from multivariate analysis and applied many multivariate methods to the higher order asymptotic theory of vector time series I am very grateful to the late Professor P R Krishnaiah for his cooperation and kindness In Japan my research was mainly performed in Hiroshima University There is a research group of statisticians who are interested in the asymptotic expansions in statistics Throughout this book I often used the asymptotic expansion techniques I thank all the members of this group especially Professors Y Fujikoshi and K Maekawa for their helpful discussion When I was a student of Osaka University I learned multivariate analysis and time series analysis from Professors Masashi Okamoto and T Nagai respectively It is a pleasure to thank them for giving me much of research background

**Asymptotic Theory of Statistical Inference for Time Series** Masanobu Taniguchi, Yoshihide Kakizawa, 2012-12-06 There has been much demand for the statistical analysis of dependent observations in many fields for example economics engineering and the natural sciences A model that describes the probability structure of a series of dependent observations is called a stochastic process The primary aim of this book is to provide modern statistical techniques and theory for stochastic processes The stochastic processes mentioned here are not restricted to the usual autoregressive AR moving average MA and autoregressive moving average ARMA processes We deal with a wide variety of stochastic processes for example non Gaussian linear processes long memory processes nonlinear processes orthogonal increment processes and continuous time processes For them we develop not only the usual estimation and testing theory but also many other statistical methods and techniques such as discriminant analysis cluster analysis nonparametric methods higher order asymptotic theory in view of differential geometry large deviation principle and saddlepoint approximation Because it is difficult to use the exact distribution theory the discussion is based on the asymptotic theory Optimality of various procedures is often shown by use of local asymptotic normality LAN which is due to LeCam This book is suitable as a professional reference book on statistical analysis of stochastic processes or as a textbook for students who specialize in statistics It will also be useful to researchers including those in econometrics mathematics and seismology who utilize statistical methods for stochastic processes

**Research Papers in Statistical Inference for Time Series and Related Models** Yan Liu, Junichi Hirukawa, Yoshihide Kakizawa, 2023-05-31 This book compiles theoretical

developments on statistical inference for time series and related models in honor of Masanobu Taniguchi's 70th birthday. It covers models such as long range dependence models, nonlinear conditionally heteroscedastic time series, locally stationary processes, integer valued time series, Levy Processes, complex valued time series, categorical time series, exclusive topic models and copula models. Many cutting edge methods such as empirical likelihood methods, quantile regression, portmanteau tests, rank based inference, change point detection, testing for the goodness of fit, higher order asymptotic expansion, minimum contrast estimation, optimal transportation and topological methods are proposed, considered or applied to complex data based on the statistical inference for stochastic processes. The performances of these methods are illustrated by a variety of data analyses. This collection of original papers provides the reader with comprehensive and state of the art theoretical works on time series and related models. It contains deep and profound treatments of the asymptotic theory of statistical inference. In addition, many specialized methodologies based on the asymptotic theory are presented in a simple way for a wide variety of statistical models. This Festschrift finds its core audiences in statistics, signal processing and econometrics.

**Asymptotics, Nonparametrics, and Time Series** Subir Ghosh, 1999-02-18. Contains over 2500 equations and exhaustively covers not only nonparametrics but also parametric, semiparametric, frequentist, Bayesian, bootstrap, adaptive, univariate and multivariate statistical methods as well as practical uses of Markov chain models. *Causation, Prediction, and Search* Peter Spirtes, Clark Glymour, Richard Scheines, 2012-12-06. This book is intended for anyone regardless of discipline who is interested in the use of statistical methods to help obtain scientific explanations or to predict the outcomes of actions, experiments or policies. Much of G Udny Yule's work illustrates a vision of statistics whose goal is to investigate when and how causal influences may be reliably inferred and their comparative strengths estimated from statistical samples. Yule's enterprise has been largely replaced by Ronald Fisher's conception in which there is a fundamental cleavage between experimental and non experimental inquiry and statistics is largely unable to aid in causal inference without randomized experimental trials. Every now and then members of the statistical community express misgivings about this turn of events and in our view rightly so. Our work represents a return to something like Yule's conception of the enterprise of theoretical statistics and its potential practical benefits. If intellectual history in the 20th century had gone otherwise there might have been a discipline to which our work belongs. As it happens there is not. We develop material that belongs to statistics, to computer science and to philosophy; the combination may not be entirely satisfactory for specialists in any of these subjects. We hope it is nonetheless satisfactory for its purpose. *Optimal Sequentially Planned Decision Procedures* Norbert Schmitz, 2012-12-06. Learning from experience, making decisions on the basis of the available information and proceeding step by step to a desired goal are fundamental behavioural qualities of human beings. Nevertheless it was not until the early 1940s that such a statistical theory, namely Sequential Analysis, was created which allows us to investigate this kind of behaviour in a precise manner. A Wald's famous sequential probability ratio test (SPRT) (see example 1.8) turned out to have an

enormous influence on the development of this theory On the one hand Wald's fundamental monograph *Sequential Analysis* is essentially centered around this test On the other hand important properties of the SPRT e.g. Bayes optimality minimax properties uniform optimality with respect to expected sample sizes gave rise to the development of a general statistical decision theory As a consequence the SPRT's played a dominating role in the further development of sequential analysis and more generally in theoretical statistics

*Probability Models and Statistical Analyses for Ranking Data* Michael A. Fligner, Joseph S. Verducci, 2012-12-06 In June of 1990 a conference was held on Probability Models and Statistical Analyses for Ranking Data under the joint auspices of the American Mathematical Society the Institute for Mathematical Statistics and the Society of Industrial and Applied Mathematicians The conference took place at the University of Massachusetts Amherst and was attended by 36 participants including statisticians mathematicians psychologists and sociologists from the United States Canada Israel Italy and The Netherlands There were 18 presentations on a wide variety of topics involving ranking data This volume is a collection of 14 of these presentations as well as 5 miscellaneous papers that were contributed by conference participants We would like to thank Carole Kohanski summer program coordinator for the American Mathematical Society for her assistance in arranging the conference M Steigerwald for preparing the manuscripts for publication Martin Gilchrist at Springer Verlag for editorial advice and Persi Diaconis for contributing the Foreword Special thanks go to the anonymous referees for their careful readings and constructive comments Finally we thank the National Science Foundation for their sponsorship of the AMS IMS SIAM Joint Summer Programs

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**Advances in GLIM and Statistical Modelling** Ludwig Fahrmeir, Brian Francis, Robert Gilchrist, Gerhard Tutz, 2012-12-06 This volume presents the published Proceedings of the joint meeting of GUM92 and the 7th International Workshop on Statistical Modelling held in Munich Germany from 13 to 17 July 1992 The meeting aimed to bring together researchers interested in the development and applications of generalized linear modelling in GUM and those interested in statistical modelling in its widest sense This joint meeting built upon the success of previous workshops and GUM conferences Previous GUM conferences were held in London and Lancaster and a joint GUM Conference 4th Modelling Workshop was held in Trento The Proceedings of previous GUM conferences Statistical Modelling Workshops are available as numbers 14 32 and 57 of the Springer Verlag series of Lecture Notes in Statistics Workshops have been organized in Innsbruck Perugia Vienna Toulouse and Utrecht Proceedings of the Toulouse Workshop appear as numbers 3 and 4 of volume 13 of the journal Computational Statistics and Data Analysis Much statistical modelling is carried out using GUM as is apparent from many of the papers in these Proceedings Thus the Programme Committee were also keen on encouraging papers which addressed problems which are not only of practical importance but which are also relevant to

GUM or other software development The Programme Committee requested both theoretical and applied papers Thus there are papers in a wide range of practical areas such as ecology breast cancer remission and diabetes mortality banking and insurance quality control social mobility organizational behaviour      **Linear and Graphical Models** Heidi H.

Andersen, Malene Højbjerg, Dorte Sørensen, Poul S. Eriksen, 2012-12-06 In the last decade graphical models have become increasingly popular as a statistical tool This book is the first which provides an account of graphical models for multivariate complex normal distributions Beginning with an introduction to the multivariate complex normal distribution the authors develop the marginal and conditional distributions of random vectors and matrices Then they introduce complex MANOVA models and parameter estimation and hypothesis testing for these models After introducing undirected graphs they then develop the theory of complex normal graphical models including the maximum likelihood estimation of the concentration matrix and hypothesis testing of conditional independence      *Statistical Modelling* Gilg U.H. Seeber, Brian J.

Francis, Reinhold Hatzinger, Gabriela Steckel-Berger, 2012-12-06 This volume presents the published proceedings of the 10th International Workshop on Statistical Modelling to be held in Innsbruck Austria from 10 to 14 July 1995 This workshop marks an important anniversary The inaugural workshop in this series also took place in Innsbruck in 1986 and brought together a small but enthusiastic group of thirty European statisticians interested in statistical modelling The workshop arose out of two G LIM conferences in the U K in London 1982 and Lancaster 1985 and from a number of short courses organised by Murray Aitkin and held at Lancaster in the early 1980s which attracted many European statisticians interested in Generalised Linear Modelling The inaugural workshop in Innsbruck concentrated on GLMs and was characterised by a number of features a friendly and supportive academic atmosphere tutorial sessions and invited speakers presenting new developments in statistical modelling and a very well organised social programme The academic programme allowed plenty of time for presentation and for discussion and made available copies of all papers beforehand Over the intervening years the workshop has grown substantially and now regularly attracts over 150 participants The scope of the workshop is now much broader reflecting the growth in the subject of statistical modelling over ten years The elements of the first workshop however are still present and participants always find the meetings relevant and stimulating      *Bilinear Forms and Zonal Polynomials* Arak

M. Mathai, Serge B. Provost, Takesi Hayakawa, 2012-12-06 The book deals with bilinear forms in real random vectors and their generalizations as well as zonal polynomials and their applications in handling generalized quadratic and bilinear forms The book is mostly self contained It starts from basic principles and brings the readers to the current research level in these areas It is developed with detailed proofs and illustrative examples for easy readability and self study Several exercises are proposed at the end of the chapters The complicated topic of zonal polynomials is explained in detail in this book The book concentrates on the theoretical developments in all the topics covered Some applications are pointed out but no detailed application to any particular field is attempted This book can be used as a textbook for a one semester graduate course on

quadratic and bilinear forms and or on zonal polynomials It is hoped that this book will be a valuable reference source for graduate students and research workers in the areas of mathematical statistics quadratic and bilinear forms and their generalizations zonal polynomials invariant polynomials and related topics and will benefit statisticians mathematicians and other theoretical and applied scientists who use any of the above topics in their areas Chapter 1 gives the preliminaries needed in later chapters including some Jacobians of matrix transformations Chapter 2 is devoted to bilinear forms in Gaussian real ran dom vectors their properties and techniques specially developed to deal with bilinear forms where the standard methods for handling quadratic forms become complicated

**Practical Nonparametric and Semiparametric Bayesian Statistics** Dipak D. Dey, Peter Müller, Debajyoti Sinha, 2012-12-06 A compilation of original articles by Bayesian experts this volume presents perspectives on recent developments on nonparametric and semiparametric methods in Bayesian statistics The articles discuss how to conceptualize and develop Bayesian models using rich classes of nonparametric and semiparametric methods how to use modern computational tools to summarize inferences and how to apply these methodologies through the analysis of case studies

*Wavelets, Approximation, and Statistical Applications* Wolfgang Härdle, Gerard Kerkycharian, Dominique Picard, Alexander Tsybakov, 2012-12-06 The mathematical theory of ondelettes wavelets was developed by Yves Meyer and many collaborators about 10 years ago It was designed for ap proximation of possibly irregular functions and surfaces and was successfully applied in data compression turbulence analysis image and signal process ing Five years ago wavelet theory progressively appeared to be a power ful framework for nonparametric statistical problems Efficient computa tional implementations are beginning to surface in this second lustrum of the nineties This book brings together these three main streams of wavelet theory It presents the theory discusses approximations and gives a variety of statistical applications It is the aim of this text to introduce the novice in this field into the various aspects of wavelets Wavelets require a highly interactive computing interface We present therefore all applications with software code from an interactive statistical computing environment Readers interested in theory and construction of wavelets will find here in a condensed form results that are somewhat scattered around in the research literature A practioner will be able to use wavelets via the available software code We hope therefore to address both theory and practice with this book and thus help to construct bridges between the different groups of scientists This te xt grew out of a French German cooperation Seminaire Paris Berlin Seminar Berlin Paris This seminar brings together theoretical and applied statisticians from Berlin and Paris This work originates in the first of these seminars organized in Garchy Burgundy in 1994

*Probability Towards 2000* L. Accardi, C.C. Heyde, 2012-12-06 Senior probabilists from around the world with widely differing specialities gave their visions of the state of their specialty why they think it is important and how they think it will develop in the new millenium The volume includes papers given at a symposium at Columbia University in 1995 but papers from others not at the meeting were added to broaden the coverage of areas All papers were refereed

Branching

Processes C.C. Heyde, 2012-12-06 This volume presents the edited proceedings of the First World Congress on Branching Processes The contributions present new research and surveys of the current research activity in this field As a result all those undertaking research in the subject will find this a timely and high quality volume to have on their shelves

*Cointegration, Causality, and Forecasting* Halbert White, Robert F. Engle, Clive William John Granger, 1999 The book is a collection of essays in honour of Clive Granger The chapters are by some of the world leading econometricians all of whom have collaborated with or studied with or both Clive Granger Central themes of Granger's work are reflected in the book with attention to tests for unit roots and cointegration tests of misspecification forecasting models and forecast evaluation non linear and non parametric econometric techniques and overall a careful blend of practical empirical work and strong theory The book shows the scope of Granger's research and the range of the profession that has been influenced by his work

**Conditionally Specified Distributions** Barry C. Arnold, Enrique Castillo, Jose-Maria Sarabia Alegria, 2012-12-06 The concept of conditional specification is not new It is likely that earlier investigators in this area were deterred by computational difficulties encountered in the analysis of data following conditionally specified models Readily available computing power has swept away that roadblock A broad spectrum of new flexible models may now be added to the researcher's tool box This monograph provides a preliminary guide to these models Further development of inferential techniques especially those involving concomitant variables is clearly called for We are grateful for invaluable assistance in the preparation of this monograph In Riverside Carole Arnold made needed changes in grammar and punctuation and Peggy Franklin miraculously transformed minute hieroglyphics into immaculate typescript In Santander Agustin Manrique expertly transformed rough sketches into clear diagrams Finally we thank the University of Cantabria for financial support which made possible Barry C Arnold's enjoyable and productive visit to Santander during the initial stages of the project Barry C Arnold Riverside California USA Enrique Castillo Jose Maria Sarabia Santander Cantabria Spain January 1991 Contents 1 Conditional Specification 1 1 1 Why 1 1 2 How may one specify a bivariate distribution 2 1 3 Early work on conditional specification 4 1 4 Organization of this monograph 5 2 Basic Theorems 7 Compatible conditionals The finite discrete case

A Road to Randomness in Physical Systems Eduardo M.R.A. Engel, 2012-12-06 There are many ways of introducing the concept of probability in classical i.e. deterministic physics This work is concerned with one approach known as the method of arbitrary function It was put forward by Poincare in 1896 and developed by Hopf in the 1930's The idea is the following There is always some uncertainty in our knowledge of both the initial conditions and the values of the physical constants that characterize the evolution of a physical system A probability density may be used to describe this uncertainty For many physical systems dependence on the initial density washes away with time In these cases the system's position eventually converges to the same random variable no matter what density is used to describe initial uncertainty Hopf's results for the method of arbitrary functions are derived and extended in a unified fashion in these lecture notes They include his work on

dissipative systems subject to weak frictional forces Most prominent among the problems he considers is his carnival wheel example which is the first case where a probability distribution cannot be guessed from symmetry or other plausibility considerations but has to be derived combining the actual physics with the method of arbitrary functions Examples due to other authors such as Poincaré's law of small planets Borel's billiards problem and Keller's coin tossing analysis are also studied using this framework Finally many new applications are presented

**Generalized Gamma Convolutions and Related Classes of Distributions and Densities** Lennart Bondesson, 2012-12-06 Generalized Gamma convolutions were introduced by Olof Thorin in 1977 and were used by him to show that in particular the Lognormal distribution is infinitely divisible After that a large number of papers rapidly appeared with new results in a somewhat random order Many of the papers appeared in the Scandinavian Actuarial Journal This work is an attempt to present the main results on this class of probability distributions and related classes in a rather logical order The goal has been to be on a level that is not too advanced However since the field is rather technical most readers will find difficult passages in the text Those who do not want to visit a mysterious land situated between the land of probability theory and statistics and the land of classical analysis should not look at this work When some years ago I submitted a survey to a journal it was suggested by the editor K Krickeberg that it should be expanded to a book However at that time I was rather reluctant to do so since there remained so many problems to be solved or to be solved in a smoother way than before Moreover there was at that time some lack of probabilistic interpretations and applications Many of the problems are now solved but still it is felt that more applications than those presented in the work could be found

**Recent Advances in Lifetime and Reliability Models** Gauss M. Cordeiro, Rodrigo B. Silva, Abraão D. C. Nascimento, 2020-04-20 Introduction Mathematicians and statisticians have made significant academic progress on the subject of distribution theory in the last two decades and this area of study is becoming one of the main statistical tools for the analysis of lifetime survival data In many ways lifetime distributions are the common language of survival dialogue because the framework subsumes many statistical properties of interest such as reliability entropy and maximum likelihood Recent Advances in Lifetime and Reliability Models provides a comprehensive account of models and methods for lifetime models Building from primary definitions such as density and hazard rate functions this book presents readers a broad framework on distribution theory in survival analysis This framework covers classical methods such as the exponentiated distribution method as well as recent models explaining lifetime distributions such as the beta family and compounding models Additionally a detailed discussion of mathematical and statistical properties of each family such as mixture representations asymptotes types of moments order statistics quantile functions generating functions and estimation is presented in the book Key Features presents information about classical and modern lifetime methods covers key properties of different models in detail explores regression models for the beta generalized family of distributions focuses information on both theoretical fundamentals and practical aspects of implementing different models features examples

relevant to business engineering and biomedical sciences Recent Advances in Lifetime and Reliability Models will equip students researchers and working professionals with the information to make extensive use of observational data in a variety of fields to create inferential models that make sense of lifetime data

## **Higher Order Asymptotic Theory For Time Series Analysis** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Higher Order Asymptotic Theory For Time Series Analysis**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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