

Lecture Notes in Statistics

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Johan C. Akkerboom

Testing Problems with Linear or
Angular Inequality Constraints



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Testing Problems With Linear Or Angular Inequality Constraints

D. Bosq



Testing Problems With Linear Or Angular Inequality Constraints:

Testing Problems with Linear or Angular Inequality Constraints Johan C. Akkerboom, 2012-12-06 Represents a self contained account of a new promising and generally applicable approach to a large class of one sided testing problems where the alternative is restricted by at least two linear inequalities It highlights the geometrical structure of these problems It gives guidance in the construction of a so called Circular Likelihood Ratio CLR test which is obtained if the linear inequalities or polyhedral cone are replaced by one suitable angular inequality or circular cone Such a test will often constitute a nice and easy to use compromise between the LR test and a suitable linear test against the original alternative The book treats both theory and practice of CLR tests For cases with up to 13 linear inequalities it evaluates the power of CLR tests derives the most stringent CLR test and provides tables of critical values It is of interest both to the specialist in order restricted inference and to the statistical consultant in need of simple and powerful one sided tests Many examples are worked out for ANOVA goodness of fit and contingency table problems Case studies are devoted to Mokken s one dimensional scaling model one sided treatment comparison in a two period crossover trial and some real data ANOVA layouts biology and educational psychology

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Statistical Hypothesis Testing: Theory And Methods Ning-zhong Shi, Jian Tao, 2008-09-29 This book presents up to date theory and methods of statistical hypothesis testing based on measure theory The so called statistical space is a measurable space adding a family of probability measures Most topics in the book will be developed based on this term The book includes some typical data sets such as the relation between race and the death penalty verdict the behavior of food intake of two kinds of Zucker rats and the per capita income and expenditure in China during the 1978 2002 period Emphasis is given to the process of finding appropriate statistical techniques and methods of evaluating these techniques

Nonparametric Statistics for Stochastic Processes D. Bosq, 2012-12-06 This book is devoted to the theory and applications of nonparametric functional estimation and prediction Chapter 1 provides an overview of inequalities and limit theorems for strong mixing processes Density and regression estimation in discrete time are studied in Chapter 2 and 3 The special rates of convergence which appear in continuous time are presented in Chapters 4 and 5 This second edition is extensively revised and it contains two new chapters Chapter 6 discusses the surprising local time density estimator Chapter 7 gives a detailed account of implementation of nonparametric method and practical examples in economics finance and physics Comparison with ARMA and ARCH methods shows the efficiency of nonparametric forecasting The prerequisite is a knowledge of classical probability theory and statistics Denis Bosq is Professor of Statistics at the University of Paris 6 Pierre et Marie Curie He is Editor in Chief of Statistical Inference for Stochastic Processes and an editor of Journal of Nonparametric Statistics He is an elected member of the International Statistical Institute He has published about 90 papers or works in nonparametric statistics and four books

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

Discretization and MCMC Convergence Assessment Christian P. Robert, 2012-12-06 The exponential increase in the use of MCMC methods and the corresponding applications in domains of even higher complexity have caused a growing concern about the available convergence assessment methods and the realization that some of these methods were not reliable enough for all purpose analyses Some researchers have mainly focussed on the convergence to stationarity and the estimation of rates of convergence in relation with the eigenvalues of the transition kernel This monograph adopts a different perspective by developing supposedly practical devices to assess the mixing behaviour of the chain under study and more particularly it proposes methods based on finite state space Markov chains which are obtained either through a discretization of the original Markov chain or through a duality principle relating a continuous state space Markov chain to another finite Markov chain as in missing data or latent variable models The motivation for the choice of finite state spaces is that although the resulting control is cruder in the sense that it can often monitor convergence for the discretized version alone it is also much stricter than alternative methods since the tools available for finite Markov chains are universal and the resulting transition matrix can be estimated more accurately Moreover while some setups impose a fixed finite state space other allow for possible refinements in the discretization level and for consecutive improvements in the convergence monitoring

Case Studies in Bayesian Statistics Constantine Gatsonis, James S. Hodges, Robert E. Kass, Robert E. McCulloch, Peter Rossi, Nozer D. Singpurwalla, 2012-12-06 Like the first two volumes this third volume of case studies presents detailed applications of Bayesian statistical analysis emphasizing the scientific context The papers were presented and discussed at a workshop at Carnegie Mellon University October 5-7 1995 In this volume which is dedicated to the

memory of Morris H DeGroot econometric applications are highlighted There are six invited papers each with accompanying invited discussion and eight contributed papers which were selected following refereeing In addition we include prefatory recollections about Morrie DeGroot by James O Berger and Richard M Cyert INVITED PAPERS In Probing Public Opinion The State of Valencia Experience Jose Bernardo who was a scientific advisor to the President of the State of Valencia Spain summarizes procedures that were set up to probe public opinion and were used as an input to the government's decision making process At the outset a sample survey had to be designed The problem of finding an optimal Bayesian design based on logarithmic divergence between probability distributions involves minimization over 21483 points in the action space To solve it simulated annealing was used The author describes the objective of obtaining the probability that an individual classified in a certain group will prefer one of several possible alternatives and his approach using posterior distributions based on reference priors

Latent Variable Modeling and Applications to Causality Maia Berkane, 2012-12-06 This volume gathers refereed papers presented at the 1994 UCLA conference on Latent Variable Modeling and Application to Causality The meeting was organized by the UCLA Interdivisional Program in Statistics with the purpose of bringing together a group of people who have done recent advanced work in this field The papers in this volume are representative of a wide variety of disciplines in which the use of latent variable models is rapidly growing The volume is divided into two broad sections The first section covers Path Models and Causal Reasoning and the papers are innovations from contributors in disciplines not traditionally associated with behavioural sciences e.g computer science with Judea Pearl and public health with James Robins Also in this section are contributions by Rod McDonald and Michael Sobel who have a more traditional approach to causal inference generating from problems in behavioural sciences The second section encompasses new approaches to questions of model selection with emphasis on factor analysis and time varying systems Amemiya uses nonlinear factor analysis which has a higher order of complexity associated with the identifiability conditions Muthen studies longitudinal hierarchical models with latent variables and treats the time vector as a variable rather than a level of hierarchy DeLeeuw extends exploratory factor analysis models by including time as a variable and allowing for discrete and ordinal latent variables Arminger looks at autoregressive structures and Bock treats factor analysis models for categorical data

Stochastic Models, Statistical Methods, and Algorithms in Image Analysis Piero Barone, Arnaldo Frigessi, Mauro Piccioni, 2012-12-06 This volume comprises a collection of papers by world renowned experts on image analysis The papers range from survey articles to research papers and from theoretical topics such as simulated annealing through to applied image reconstruction It covers applications as diverse as biomedicine astronomy and geophysics As a result any researcher working on image analysis will find this book provides an up to date overview of the field and in addition the extensive bibliographies will make this a useful reference

Monte Carlo and Quasi-Monte Carlo Methods 1996 Harald Niederreiter, Peter Hellekalek, Gerhard Larcher, Peter Zinterhof, 2012-12-06 Monte Carlo methods are numerical methods based on random sampling and quasi Monte Carlo

methods are their deterministic versions This volume contains the refereed proceedings of the Second International Conference on Monte Carlo and Quasi Monte Carlo Methods in Scientific Computing which was held at the University of Salzburg Austria from July 9-12, 1996 The conference was a forum for recent progress in the theory and the applications of these methods The topics covered in this volume range from theoretical issues in Monte Carlo and simulation methods low discrepancy point sets and sequences lattice rules and pseudorandom number generation to applications such as numerical integration numerical linear algebra integral equations binary search global optimization computational physics mathematical finance and computer graphics These proceedings will be of interest to graduate students and researchers in Monte Carlo and quasi Monte Carlo methods to numerical analysts and to practitioners of simulation methods

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