

# 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

**Christian G. Meyer**



## **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

**Testing Problems with Linear Or Angular Inequality Constraints** Johan C Akkerboom, 1990-03-13

**Constrained Statistical Inference** Mervyn J. Silvapulle, Pranab Kumar Sen, 2011-09-15 An up to date approach to understanding statistical inference Statistical inference is finding useful applications in numerous fields from sociology and econometrics to biostatistics This volume enables professionals in these and related fields to master the concepts of statistical inference under inequality constraints and to apply the theory to problems in a variety of areas Constrained Statistical Inference Order Inequality and Shape Constraints provides a unified and up to date treatment of the methodology It clearly illustrates concepts with practical examples from a variety of fields focusing on sociology econometrics and biostatistics The authors also discuss a broad range of other inequality constrained inference problems that do not fit well in the contemplated unified framework providing a meaningful way for readers to comprehend methodological resolutions Chapter coverage includes Population means and isotonic regression Inequality constrained tests on normal means Tests in general parametric models Likelihood and alternatives Analysis of categorical data Inference on monotone density function unimodal density function shape constraints and DMRL functions Bayesian perspectives including Stein s Paradox shrinkage estimation and decision theory

**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

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

Stochastic Models, Statistical Methods, and Algorithms in Image Analysis Piero Barone,Arnoldo 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

*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 functionJ 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 Poincare 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

**Statistical Inference for Spatial Poisson Processes** Yu A. Kutoyants,2012-12-06 This work is devoted to several problems of parametric mainly and nonparametric estimation through the observation of Poisson processes defined on general spaces Poisson processes are quite popular in applied research and therefore they attract the attention of many statisticians There are a lot of good books on point processes and many of them contain chapters devoted to statistical inference for general and particular models of processes There are even chapters on statistical estimation problems for inhomogeneous Poisson processes in asymptotic statements

Nevertheless it seems that the asymptotic theory of estimation for nonlinear models of Poisson processes needs some development Here nonlinear means the models of inhomogeneous Poisson processes with intensity function nonlinearly depending on unknown parameters In such situations the estimators usually cannot be written in exact form and are given as solutions of some equations However the models can be quite fruitful in engineering problems and the existing computing algorithms are sufficiently powerful to calculate these estimators Therefore the properties of estimators can be interesting too

**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

Exact Confidence Bounds when Sampling from Small Finite Universes Tommy Wright, 2012-12-06 There is a very simple and fundamental concept to much of probability and statistics that can be conveyed using the following problem PROBLEM Assume a finite set universe of  $N$  units where  $A$  of the units have a particular attribute The value of  $N$  is known while the value of  $A$  is unknown If a proper subset sample of size  $n$  is selected randomly and  $a$  of the units in the subset are observed to have the particular attribute what can be said about the unknown value of  $A$  The problem is not new and almost anyone can describe several situations where a particular problem could be presented in this setting Some recent references with different focuses include Cochran 1977 Williams 1978 Hajek 1981 Stuart 1984 Cassel Samdal and Wretman 1977 and Johnson and Kotz 1977 We focus on confidence interval estimation of  $A$  Several methods for exact confidence interval estimation of  $A$  exist Buonaccorsi 1987 and Peskun 1990 and this volume presents the theory and an extensive Table for one of them One of the important contributions in Neyman 1934 is a discussion of the meaning of confidence interval estimation and its relationship with hypothesis testing which we will call the Neyman Approach In Chapter 3 and following Neyman's Approach for simple random sampling without

replacement we present an elementary development of exact confidence interval estimation of  $A$  as a response to the specific problem cited above

**Robust Planning and Analysis of Experiments** Christine H. Mueller, 2012-12-06 Author approved  
 Robust statistics and the design of experiments are two of the fastest growing fields in contemporary statistics Up to now there has been very little overlap between these fields In robust statistics robust alternatives to the nonrobust least squares estimator have been developed while in experimental design designs for the efficient use of the least square estimator have been developed This volume is the first to link these two areas by studying the influence of the design on the efficiency and robustness of robust estimators and tests It shows that robust statistical procedures profit by an appropriate choice of the design and that efficient designs for a robust statistical analysis are more applicable The classical approaches of experimental design and robust statistics are introduced before the areas are linked Dr Christine H Mueller teaches at the Department of Mathematics and Computer Science of the Free University of Berlin and is a member of the research project on Efficient Experiments in Industrial Production From 1988-1991 she worked as a biometrician at the Medical Department of the Free University of Berlin

*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

*Stochastic Networks* Paul Glasserman, Karl Sigman, David D. Yao, 2012-12-06 Two of the most exciting topics of current research in stochastic networks are the complementary subjects of stability and rare events roughly the former deals with the typical behavior of networks and the latter with significant atypical behavior Both are classical topics of interest since the early days of queueing theory that have experienced renewed interest motivated by new applications to emerging technologies For example new stability issues arise in the scheduling of multiple job classes in semiconductor manufacturing the so called reentrant lines and a prominent need for studying rare events is associated with the design of telecommunication systems using the new ATM asynchronous transfer mode technology so as to guarantee quality of service The objective of this volume is hence to present a sample by no means comprehensive of recent research problems methodologies and results in these two exciting and burgeoning areas The volume is organized in two parts with the first

part focusing on stability and the second part on rare events But it is impossible to draw sharp boundaries in a healthy field and inevitably some articles touch on both issues and several develop links with other areas as well Part I is concerned with the issue of stability in queueing networks

**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

*Model-Oriented Design of Experiments* Valerii V. Fedorov, Peter Hackl, 1997-06-20 Here the authors explain the basic ideas so as to generate interest in modern problems of experimental design The topics discussed include designs for inference based on nonlinear models designs for models with random parameters and stochastic processes designs for model discrimination and incorrectly specified contaminated models as well as examples of designs in functional spaces Since the authors avoid technical details the book assumes only a moderate background in calculus matrix algebra and statistics However at many places hints are given as to how readers may enhance and adopt the basic ideas for advanced problems or applications This allows the book to be used for courses at different levels as well as serving as a useful reference for graduate students and researchers in statistics and engineering

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

**Applications of Computer Aided Time Series Modeling** Masanao Aoki, Arthur M. Havenner, 2012-12-06 This book consists of three parts Part One is composed of two introductory chapters The first chapter provides an instrumental variable interpretation of the



state space time series algorithm originally proposed by Aoki 1983 and gives an introductory account for incorporating exogenous signals in state space models The second chapter by Havenner gives practical guidance in applying this algorithm by one of the most experienced practitioners of the method Havenner begins by summarizing six reasons state space methods are advantageous and then walks the reader through construction and evaluation of a state space model for four monthly macroeconomic series industrial production index consumer price index six month commercial paper rate and money stock M1 To single out one of the several important insights in modeling that he shares with the reader he discusses in Section 2ii the effects of sampling errors and model misspecification on successful modeling efforts He argues that model misspecification is an important amplifier of the effects of sampling error that may cause symplectic matrices to have complex unit roots a theoretical impossibility Correct model specifications increase efficiency of estimators and often eliminate this finite sample problem This is an important insight into the positive realness of covariance matrices positivity has been emphasized by system engineers to the exclusion of other methods of reducing sampling error and alleviating what is simply a finite sample problem The second and third parts collect papers that describe specific applications

**Probability Towards 2000** L. Accardi, C.C. Heyde, 2012-12-06 Senior probabilists from around the world with widely differing specialties 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 millennium 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

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