Quasi-Likelihood And Its Application: A General Approach to Optimal Parameter Estimation

Christopher C. Heyde

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Quasi-Likelihood And Its Application Christopher C. Heyde,2008-01-08 The first account in book form of all the essential features of the quasi likelihood methodology stressing its value as a general purpose inferential tool The treatment is rather informal emphasizing essential principles rather than detailed proofs and readers are assumed to have a firm grounding in probability and statistics at the graduate level Many examples of the use of the methods in both classical statistical and stochastic process contexts are provided **Quasi-Likelihood And Its Application** C. C. Heyde,1997-07-31 The first account in book form of all the essential features of the quasi likelihood methodology stressing its value as a general purpose inferential tool The treatment is rather informal emphasizing essential principles rather than detailed proofs and readers are assumed to have a firm grounding in probability and statistics at the graduate level Many examples of the use of the methods in both classical statistical and stochastic process contexts are provided **Functional Data Analysis** James Ramsay,B. W. Silverman,2013-11-11 Scientists today collect samples of curves and other functional observations This monograph presents many ideas and techniques for such data Included are expressions in the functional domain of such classics as linear regression principal components analysis linear modelling and canonical correlation analysis as well as specifically functional techniques such as curve registration and principal differential analysis Data arising in real applications are used throughout for both motivation and illustration showing how functional approaches allow us to see new things especially by exploiting the smoothness of the processes generating the data The data sets exemplify the wide scope of functional data analysis they are drawn from growth analysis meterology biomechanics equine science economics and medicine The book presents novel statistical technology while keeping the mathematical level widely accessible It is designed to appeal to students to applied data analysts and to experienced researchers it will have value both within statistics and across a broad spectrum of other fields Much of the material is based on the authors own work some of which appears here for the first time Jim Ramsay is Professor of Psychology at McGill University and is an international authority on many aspects of multivariate analysis He draws on his collaboration with researchers in speech articulation motor control meteorology psychology and human physiology to illustrate his technical contributions to functional data analysis in a wide range of statistical and application journals Bernard Silverman author of the highly regarded Density Estimation for Statistics and Data Analysis and coauthor of Nonparametric Regression and Generalized Linear Models A Roughness Penalty

Introduction to Rare Event Simulation James Bucklew,2013-03-09 This book is an attempt to present a unified theory of rare event simulation and the variance reduction technique known as importance sampling from the point of view of the probabilistic theory of large deviations This framework allows us to view a vast assortment of simulation problems from a single unified perspective It gives a great deal of insight into the fundamental nature of rare event simulation Unfortunately this area has a reputation among simulation practitioners of requiring a great deal of technical and probabilistic expertise In

this text I have tried to keep the mathematical preliminaries to a minimum the only prerequisite is a single large deviation theorem dealing with sequences of Rd valued random variables This theorem and a proof are given in the text Large deviation theory is a burgeoning area of probability theory and many of the results in it can be applied to simulation problems Rather than try to be as complete as possible in the exposition of all possible aspects of the available theory I have tried to concentrate on demonstrating the methodology and the principal ideas in a fairly simple setting Madison Wisconsin 2003 James Antonio Bucklew Contents 1 Random Number Generation 1 1 1 Uniform Generators 1 1 2 Nonuniform Generation 8 1 2 1 The Inversion Method 8 1 2 2 The Acceptance Rejection Method 10 1 3 Discrete Distributions 13 1 3 1 Inversion by Truncation of a ContinuousAnalog 14 1 3 2 Acceptance Rejection 15   Inference in Hidden Markov Models Olivier Cappé,Eric Moulines,Tobias Rydén,2005-08-04 This book is a comprehensive treatment of inference for hidden Markov models including both algorithms and statistical theory Topics range from filtering and smoothing of the hidden Markov chain to parameter estimation Bayesian methods and estimation of the number of states In a unified way the book covers both models with finite state spaces and models with continuous state spaces also called state space models requiring approximate simulation based algorithms that are also described in detail Many examples illustrate the algorithms and theory This book builds on recent developments to present a self contained view   **Scan Statistics** Joseph Glaz,Joseph Naus,Sylvan Wallenstein,2013-03-09 In many statistical applications the scientists have to analyze the occurrence of observed clusters of events in time or space The scientists are especially interested to determine whether an observed cluster of events has occurred by chance if it is assumed that the events are distributed independently and uniformly over time or space Applications of scan statistics have been recorded in many areas of science and technology including geology geography medicine minefield detection molecular biology photography quality control and reliability theory and radio optics
    Models for Discrete Longitudinal Data Geert Molenberghs,Geert Verbeke,2006-08-30 The linear mixed model has become the main parametric tool for the analysis of continuous longitudinal data as the authors discussed in their 2000 book Without putting too much emphasis on software the book shows how the different approaches can be implemented within the SAS software package The authors received the American Statistical Association s Excellence in Continuing Education Award based on short courses on longitudinal and incomplete data at the Joint Statistical Meetings of 2002 and 2004   **Unified Methods for Censored Longitudinal Data and Causality** Mark J. van der Laan,James M Robins,2012-11-12 During the last decades there has been an explosion in computation and information technology This development comes with an expansion of complex observational studies and clinical trials in a variety of fields such as medicine biology epidemiology sociology and economics among many others which involve collection of large amounts of data on subjects or organisms over time The goal of such studies can be formulated as estimation of a finite dimensional parameter of the population distribution corresponding to the observed time dependent process Such estimation problems arise in survival analysis causal inference

and regression analysis This book provides a fundamental statistical framework for the analysis of complex longitudinal data It provides the first comprehensive description of optimal estimation techniques based on time dependent data structures subject to informative censoring and treatment assignment in so called semiparametric models Semiparametric models are particularly attractive since they allow the presence of large unmodeled nuisance parameters These techniques include estimation of regression parameters in the familiar multivariate generalized linear regression and multiplicative intensity models They go beyond standard statistical approaches by incorporating all the observed data to allow for informative censoring to obtain maximal efficiency and by developing estimators of causal effects It can be used to teach masters and Ph D students in biostatistics and statistics and is suitable for researchers in statistics with a strong interest in the analysis of complex longitudinal data   Monte Carlo Strategies in Scientific Computing Jun S. Liu,2013-11-11 This book provides a self contained and up to date treatment of the Monte Carlo method and develops a common framework under which various Monte Carlo techniques can be standardized and compared Given the interdisciplinary nature of the topics and a moderate prerequisite for the reader this book should be of interest to a broad audience of quantitative researchers such as computational biologists computer scientists econometricians engineers probabilists and statisticians It can also be used as a textbook for a graduate level course on Monte Carlo methods   **Model-based Geostatistics** Peter Diggle,Paulo Justiniano Ribeiro,2007-05-26 This volume is the first book length treatment of model based geostatistics The text is expository emphasizing statistical methods and applications rather than the underlying mathematical theory Analyses of datasets from a range of scientific contexts feature prominently and simulations are used to illustrate theoretical results Readers can reproduce most of the computational results in the book by using the authors software package geoR whose usage is illustrated in a computation section at the end of each chapter The book assumes a working knowledge of classical and Bayesian methods of inference linear models and generalized linear models   *Monte Carlo Methods in Bayesian Computation* Ming-Hui Chen,Qi-Man Shao,Joseph G. Ibrahim,2012-12-06 Sampling from the posterior distribution and computing posterior quanti ties of interest using Markov chain Monte Carlo MCMC samples are two major challenges involved in advanced Bayesian computation This book examines each of these issues in detail and focuses heavily on comput ing various posterior quantities of interest from a given MCMC sample Several topics are addressed including techniques for MCMC sampling Monte Carlo MC methods for estimation of posterior summaries improv ing simulation accuracy marginal posterior density estimation estimation of normalizing constants constrained parameter problems Highest Poste rior Density HPD interval calculations computation of posterior modes and posterior computations for proportional hazards models and Dirichlet process models Also extensive discussion is given for computations in volving model comparisons including both nested and nonnested models Marginal likelihood methods ratios of normalizing constants Bayes fac tors the Savage Dickey density ratio Stochastic Search Variable Selection SSVS Bayesian Model Averaging BMA the reverse jump algorithm and

model adequacy using predictive and latent residual approaches are also discussed The book presents an equal mixture of theory and real applications   **Exploring Multivariate Data with the Forward Search** Anthony C. Atkinson,Marco Riani,Andrea Cerioli,2013-04-17 Why We Wrote This Book This book is about using graphs to explore and model continuous multi variate data Such data are often modelled using the multivariate normal distribution and indeed there is a literatme of weighty statistical tomes presenting the mathematical theory of this activity Our book is very dif ferent Although we use the methods described in these books we focus on ways of exploring whether the data do indeed have a normal distribution We emphasize outlier detection transformations to normality and the de tection of clusters and unsuspected influential subsets We then quantify the effect of these departures from normality on procedures such as dis crimination and duster analysis The normal distribution is central to our book because subject to our exploration of departures it provides useful models for many sets of data However the standard estimates of the parameters especially the covari ance matrix of the observations are highly sensitive to the presence of outliers This is both a blessing and a curse It is a blessing because if we estimate the parameters with the outliers excluded their effect is appre ciable and apparent if we then include them for estimation It is however a curse because it can be hard to detect which observations are outliers We use the forward search for this purpose

Nonparametric and Semiparametric Models Wolfgang Karl Härdle,Marlene Müller,Stefan Sperlich,Axel Werwatz,2012-08-27 The statistical and mathematical principles of smoothing with a focus on applicable techniques are presented in this book It naturally splits into two parts The first part is intended for undergraduate students majoring in mathematics statistics econometrics or biometrics whereas the second part is intended to be used by master and PhD students or researchers The material is easy to accomplish since the e book character of the text gives a maximum of flexibility in learning and teaching intensity   **The Design and Analysis of Computer Experiments** Thomas J. Santner,Brian J. Williams,William I. Notz,2013-03-09 In the past 15 to 20 years the computer has become a popular tool for exploring the relationship between a measured response and factors thought to affect the response In many cases scientific theories exist that implicitly relate the response to the factors by means of systems of mathematical equations There also exist numerical methods for accurately solving such equations and appropriate computer hardware and software to implement these methods In many engineering applications for example the relationship is described by a dynamical system and the numerical method is a finite element code In such situations these numerical methods allow one to produce computer code that can generate the response corresponding to any given set of values of the factors This allows one to conduct an experiment called a computer experiment to explore the relationship between the response and the factors using the code Indeed in some cases computer experimentation is feasible when a properly designed physical experiment the gold standard for establishing cause and effect is impossible For example the number of input variables may be too large to consider performing a physical experiment or it may simply be economically prohibitive to run an experiment on the scale required to

gather sufficient information to answer a particular research question This book describes methods for designing and analyzing experiments conducted using computer code in lieu of a physical experiment It discusses how to select the values of the factors at which to run the code the design of the computer experiment in light of the research objectives of the experimenter It also provides techniques for analyzing the resulting data so as to achieve these research goals

   Non-negative Matrices and Markov Chains E. Seneta,2006-07-02 Since its inception by Perron and Frobenius the theory of non negative matrices has developed enormously and is now being used and extended in applied fields of study as diverse as probability theory numerical analysis demography mathematical economics and dynamic programming while its development is still proceeding rapidly as a branch of pure mathematics in its own right While there are books which cover this or that aspect of the theory it is nevertheless not uncommon for workers in one or another branch of its development to be unaware of what is known in other branches even though there is often formal overlap One of the purposes of this book is to relate several aspects of the theory insofar as this is possible The author hopes that the book will be useful to mathematicians but in particular to the workers in applied fields so the mathematics has been kept as simple as could be managed The mathematical requisites for reading it are some knowledge of real variable theory and matrix theory and a little knowledge of complex variable the emphasis is on real variable methods There is only one part of the book the second part of 55 5 which is of rather specialist interest and requires deeper knowledge Appendices provide brief expositions of those areas of mathematics needed which may be less g erally known to the average reader   *Chaos: A Statistical Perspective* Kung-Sik Chan,Howell Tong,2013-03-09 It was none other than Henri Poincare who at the turn of the last century recognised that initial value sensitivity is a fundamental source of random ness For statisticians working within the traditional statistical framework the task of critically assimilating randomness generated by a purely de terministic system often known as chaos is an intellectual challenge Like some other statisticians we have taken up this challenge and our curiosity as reporters and participants has led us to investigate beyond the earlier discoveries in the field Earlier statistical work in the area was mostly con cerned with the estimation of what is sometimes imprecisely called the fractal dimension During the different stages of our writing substantial portions of the book were used in lectures and seminars These include the DMV German Mathematical Society Seminar Program the inaugural session of lectures to the Crisis Points Project at the Peter Wall Institute of Advanced Stud ies University of British Columbia and the graduate courses on Time Series Analysis at the University of Iowa the University of Hong Kong the Lon don School of Economics and Political Science and the Chinese University of Hong Kong We have therefore benefitted greatly from the comments and suggestions of these audiences as well as from colleagues and friends We are grateful to them for their contributions Our special thanks go to Colleen Cutler Cees Diks Barbel FinkensHidt Cindy Greenwood Masakazu Shi mada Floris Takens and Qiwei Yao   **Statistical Decision Theory and Bayesian Analysis** James O. Berger,2013-03-14 In this new edition the author has added substantial material

on Bayesian analysis including lengthy new sections on such important topics as empirical and hierarchical Bayes analysis Bayesian calculation Bayesian communication and group decision making With these changes the book can be used as a self contained introduction to Bayesian analysis In addition much of the decision theoretic portion of the text was updated including new sections covering such modern topics as minimax multivariate Stein estimation *An Introduction to Copulas* Roger B. Nelsen,2007-06-10 Copulas are functions that join multivariate distribution functions to their one dimensional margins The study of copulas and their role in statistics is a new but vigorously growing field In this book the student or practitioner of statistics and probability will find discussions of the fundamental properties of copulas and some of their primary applications The applications include the study of dependence and measures of association and the construction of families of bivariate distributions With 116 examples 54 figures and 167 exercises this book is suitable as a text or for self study The only prerequisite is an upper level undergraduate course in probability and mathematical statistics although some familiarity with nonparametric statistics would be useful Knowledge of measure theoretic probability is not required The revised second edition includes new sections on extreme value copulas tail dependence and quasi copulas **Statistical Inference for Ergodic Diffusion Processes** Yury A. Kutoyants,2013-03-09 The first book in inference for stochastic processes from a statistical rather than a probabilistic perspective It provides a systematic exposition of theoretical results from over ten years of mathematical literature and presents for the first time in book form many new techniques and approaches **Reliability, Life Testing and the Prediction of Service Lives** Sam C. Saunders,2010-04-26 The prerequisite for reading this text is a calculus based course in Probability and Mathematical Statistics along with the usual curricularmathematical requi ments for every science major For graduate students from disciplines other than mathematical sciences much advantage viz both insight and mathematical turity is gained by having had experience quantifying the assurance for safety of structures operability of systems or health of persons It is presumed that each student will have some familiarity with Mathematica or Maple or better yet also have available some survival analysis software such as S Plus or R to handle the computations with the data sets This material has been selected under the conviction that the most practical aid any investigator can have is a good theory The course is intended for p sons who will during their professional life be concerned with the theoretical aspects of applied science This implies consulting with industrial mathema cians statisticians lead engineers in various fields physcists chemists material scientists and other technical specialists who are collaborating to solve some d ficult technological scientific problem Accordingly there are sections devoted to the deportment of applied mathematicians during consulting This corresponds to the bedside manner of physicians and is a important aspect of professionalism

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Table of Contents Quasi Likelihood And Its Application A General Approach To Optimal Parameter Estimation

- Participating in Virtual Book Clubs
- Following Authors and Publishers Quasi Likelihood And Its Application A General Approach To Optimal Parameter Estimation
9. Balancing eBooks and Physical Books Quasi Likelihood And Its Application A General Approach To Optimal Parameter Estimation
   - Benefits of a Digital Library
   - Creating a Diverse Reading Collection Quasi Likelihood And Its Application A General Approach To Optimal Parameter Estimation
10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
11. Cultivating a Reading Routine Quasi Likelihood And Its Application A General Approach To Optimal Parameter Estimation
    - Setting Reading Goals Quasi Likelihood And Its Application A General Approach To Optimal Parameter Estimation
    - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Quasi Likelihood And Its Application A General Approach To Optimal Parameter Estimation
    - Fact-Checking eBook Content of Quasi Likelihood And Its Application A General Approach To Optimal Parameter Estimation
    - Distinguishing Credible Sources
13. Promoting Lifelong Learning
    - Utilizing eBooks for Skill Development
    - Exploring Educational eBooks
14. Embracing eBook Trends
    - Integration of Multimedia Elements
    - Interactive and Gamified eBooks

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