Yu. I. Ingster   Irina A. Suslina

Nonparametric Goodness-of-Fit Testing Under Gaussian Models

Nonparametric Goodness Of Fit Testing Under Gaussian Models

John E. Kolassa

Nonparametric Goodness Of Fit Testing Under Gaussian Models:

Nonparametric Goodness-Of-Fit Testing Under Gaussian Models Yuri Ingster,I. A. Suslina,2002-10-29 <u>Nonparametric Goodness-of-Fit Testing Under Gaussian Models</u> Yuri Ingster,I.A. Suslina,2012-11-12 This book presents the modern theory of nonparametric goodness of fit testing It fills the gap in modern nonparametric statistical theory by discussing hypothesis testing and addresses mathematical statisticians who are interesting in the theory of non parametric statistical inference It will be of interest to specialists who are dealing with applied non parametric statistical problems relevant in signal detection and transmission and in technical and medical diagnostics among others <u>Parametric and Nonparametric Inference from Record-Breaking Data</u> Sneh Gulati,William J. Padgett,2013-03-14 As statisticians we are constantly trying to make inferences about the underlying population from which data are observed This includes estimation and prediction about the underlying population parameters from both complete and incomplete data Recently methodology for estimation and prediction from incomplete data has been found useful for what is known as record breaking data that is data generated from setting new records There has long been a keen interest in observing all kinds of records in particular sports records financial records flood records and daily temperature records to mention a few The well known Guinness Book of World Records is full of this kind of record information As usual beyond the general interest in knowing the last or current record value the statistical problem of prediction of the next record based on past records has also been an important area of record research Probabilistic and statistical models to describe behavior and make predictions from record breaking data have been developed only within the last fifty or so years with a relatively large amount of literature appearing on the subject in the last couple of decades This book written from a statistician s perspective is not a compilation of records rather it deals with the statistical issues of inference from a type of incomplete data record breaking data observed as successive record values maxima or minima arising from a phenomenon or situation under study Prediction is just one aspect of statistical inference based on observed record values **Nonlinear Estimation and Classification** David D. Denison,Mark H. Hansen,Christopher C. Holmes,Bani Mallick,Bin Yu,2013-11-11 Researchers in many disciplines face the formidable task of analyzing massive amounts of high dimensional and highly structured data This is due in part to recent advances in data collection and computing technologies As a result fundamental statistical research is being undertaken in a variety of different fields Driven by the complexity of these new problems and fueled by the explosion of available computer power highly adaptive non linear procedures are now essential components of modern data analysis a term that we liberally interpret to include speech and pattern recognition classification data compression and signal processing The development of new flexible methods combines advances from many sources including approximation theory numerical analysis machine learning signal processing and statistics The proposed workshop intends to bring together eminent experts from these fields in order to exchange ideas and forge directions for the future **Foundations of Statistical Inference** Yoel

Haitovsky,Hans Rudolf Lerche,Ya'acov Ritov,2012-12-06 This volume is a collection of papers presented at a conference held in Shoresh Holiday Resort near Jerusalem Israel in December 2000 organized by the Israeli Ministry of Science Culture and Sport The theme of the conference was Foundation of Statistical Inference Applications in the Medical and Social Sciences and in Industry and the Interface of Computer Sciences The following is a quotation from the Program and Abstract booklet of the conference Over the past several decades the field of statistics has seen tremendous growth and development in theory and methodology At the same time the advent of computers has facilitated the use of modern statistics in all branches of science making statistics even more interdisciplinary than in the past statistics thus has become strongly rooted in all empirical research in the medical social and engineering sciences The abundance of computer programs and the variety of methods available to users brought to light the critical issues of choosing models and given a data set the methods most suitable for its analysis Mathematical statisticians have devoted a great deal of effort to studying the appropriateness of models for various types of data and defining the conditions under which a particular method work In 1985 an international conference with a similar title was held in Is rael It provided a platform for a formal debate between the two main schools of thought in Statistics the Bayesian and the Frequentists   Introduction to Nonparametric Estimation Alexandre B. Tsybakov,2008-10-22 Developed from lecture notes and ready to be used for a course on the graduate level this concise text aims to introduce the fundamental concepts of nonparametric estimation theory while maintaining the exposition suitable for a first approach in the field   **Mathematical Foundations of Infinite-Dimensional Statistical Models** Evarist Giné,Richard Nickl,2021-03-25 In nonparametric and high dimensional statistical models the classical Gauss Fisher Le Cam theory of the optimality of maximum likelihood estimators and Bayesian posterior inference does not apply and new foundations and ideas have been developed in the past several decades This book gives a coherent account of the statistical theory in infinite dimensional parameter spaces The mathematical foundations include self contained mini courses on the theory of Gaussian and empirical processes approximation and wavelet theory and the basic theory of function spaces The theory of statistical inference in such models hypothesis testing estimation and confidence sets is presented within the minimax paradigm of decision theory This includes the basic theory of convolution kernel and projection estimation but also Bayesian nonparametrics and nonparametric maximum likelihood estimation In a final chapter the theory of adaptive inference in nonparametric models is developed including Lepski s method wavelet thresholding and adaptive inference for self similar functions Winner of the 2017 PROSE Award for Mathematics   *Statistical Inference Via Convex Optimization* Anatoli Juditsky,Arkadi Nemirovski,2020-04-07 This authoritative book draws on the latest research to explore the interplay of high dimensional statistics with optimization Through an accessible analysis of fundamental problems of hypothesis testing and signal recovery Anatoli Juditsky and Arkadi Nemirovski show how convex optimization theory can be used to devise and analyze near optimal statistical inferences Statistical Inference via Convex Optimization is an essential resource for

optimization specialists who are new to statistics and its applications and for data scientists who want to improve their optimization methods Juditsky and Nemirovski provide the first systematic treatment of the statistical techniques that have arisen from advances in the theory of optimization They focus on four well known statistical problems sparse recovery hypothesis testing and recovery from indirect observations of both signals and functions of signals demonstrating how they can be solved more efficiently as convex optimization problems The emphasis throughout is on achieving the best possible statistical performance The construction of inference routines and the quantification of their statistical performance are given by efficient computation rather than by analytical derivation typical of more conventional statistical approaches In addition to being computation friendly the methods described in this book enable practitioners to handle numerous situations too difficult for closed analytical form analysis such as composite hypothesis testing and signal recovery in inverse problems Statistical Inference via Convex Optimization features exercises with solutions along with extensive appendixes making it ideal for use as a graduate text   Testing Statistical Hypotheses E.L. Lehmann,Joseph P. Romano,2022-06-22 The third edition of Testing Statistical Hypotheses updates and expands upon the classic graduate text emphasizing optimality theory for hypothesis testing and confidence sets The principal additions include a rigorous treatment of large sample optimality together with the requisite tools In addition an introduction to the theory of resampling methods such as the bootstrap is developed The sections on multiple testing and goodness of fit testing are expanded The text is suitable for Ph D students in statistics and includes over 300 new problems out of a total of more than 760   **Block Designs: A Randomization Approach** Tadeusz Calinski,Sanpei Kageyama,2012-12-06 The book is composed of two volumes each consisting of five chapters In Vol ume I following some statistical motivation based on a randomization model a general theory of the analysis of experiments in block designs has been de veloped In the present Volume II the primary aim is to present methods of that satisfy the statistical requirements described in constructing block designs Volume I particularly those considered in Chapters 3 and 4 and also to give some catalogues of plans of the designs Thus the constructional aspects are of predominant interest in Volume II with a general consideration given in Chapter 6 The main design investigations are systematized by separating the material into two contents depending on whether the designs provide unit efficiency fac tors for some contrasts of treatment parameters Chapter 7 or not Chapter 8 This distinction in classifying block designs may be essential from a prac tical point of view In general classification of block designs whether proper or not is based here on efficiency balance EB in the sense of the new termi nology proposed in Section 4 4 see in particular Definition 4 4 2 Most of the attention is given to connected proper designs because of their statistical advantages as described in Volume I particularly in Chapter 3 When all con trasts are of equal importance either the class of v 1 0 O EB designs i e   Survival Analysis Sam Efromovich,2025-04-30 This textbook provides a unified account of estimating the survival function hazard rate cumulative hazard density regression conditional distributions and linear functionals for the current status censored and right censored

data The book contains the theory and methodology of efficient estimation adaptation dimension reduction and confidence bands as well as the universal E estimator for small samples Exercises and a large number of simulated and real life examples that can be repeated and modified using the complementary R package are also included This coverage together with the intuitive style of presentation is ideal for people entering this field The context is suitable for self study or a one semester course for graduate students with majors ranging from biostatistics and data analytics to econometrics and actuarial science **Missing and Modified Data in Nonparametric Estimation** Sam Efromovich,2018-03-12 This book presents a systematic and unified approach for modern nonparametric treatment of missing and modified data via examples of density and hazard rate estimation nonparametric regression filtering signals and time series analysis All basic types of missing at random and not at random biasing truncation censoring and measurement errors are discussed and their treatment is explained Ten chapters of the book cover basic cases of direct data biased data nondestructive and destructive missing survival data modified by truncation and censoring missing survival data stationary and nonstationary time series and processes and ill posed modifications The coverage is suitable for self study or a one semester course for graduate students with a prerequisite of a standard course in introductory probability Exercises of various levels of difficulty will be helpful for the instructor and self study The book is primarily about practically important small samples It explains when consistent estimation is possible and why in some cases missing data should be ignored and why others must be considered If missing or data modification makes consistent estimation impossible then the author explains what type of action is needed to restore the lost information The book contains more than a hundred figures with simulated data that explain virtually every setting claim and development The companion R software package allows the reader to verify reproduce and modify every simulation and used estimators This makes the material fully transparent and allows one to study it interactively Sam Efromovich is the Endowed Professor of Mathematical Sciences and the Head of the Actuarial Program at the University of Texas at Dallas He is well known for his work on the theory and application of nonparametric curve estimation and is the author of Nonparametric Curve Estimation Methods Theory and Applications Professor Sam Efromovich is a Fellow of the Institute of Mathematical Statistics and the American Statistical Association Estimation in Conditionally Heteroscedastic Time Series Models Daniel Straumann,2006-01-27 In his seminal 1982 paper Robert F Engle described a time series model with a time varying volatility Engle showed that this model which he called ARCH autoregressive conditionally heteroscedastic is well suited for the description of economic and financial price Nowadays ARCH has been replaced by more general and more sophisticated models such as GARCH generalized autoregressive heteroscedastic This monograph concentrates on mathematical statistical problems associated with fitting conditionally heteroscedastic time series models to data This includes the classical statistical issues of consistency and limiting distribution of estimators Particular attention is addressed to quasi maximum likelihood estimation and misspecified models along to phenomena due to heavy tailed

innovations The used methods are based on techniques applied to the analysis of stochastic recurrence equations Proofs and arguments are given wherever possible in full mathematical rigour Moreover the theory is illustrated by examples and simulation studies   *Foundations of Modern Statistics* Denis Belomestny,Cristina Butucea,Enno Mammen,Eric Moulines,Markus Reiß,Vladimir V. Ulyanov,2023-07-16 This book contains contributions from the participants of the international conference Foundations of Modern Statistics which took place at Weierstrass Institute for Applied Analysis and Stochastics WIAS Berlin during November 6 8 2019 and at Higher School of Economics HSE University Moscow during November 30 2019 The events were organized in honor of Professor Vladimir Spokoiny on the occasion of his 60th birthday Vladimir Spokoiny has pioneered the field of adaptive statistical inference and contributed to a variety of its applications His more than 30 years of research in the field of mathematical statistics had a great influence on the development of the mathematical theory of statistics to its present state It has inspired many young researchers to start their research in this exciting field of mathematics The papers contained in this book reflect the broad field of interests of Vladimir Spokoiny optimal rates and non asymptotic bounds in nonparametrics Bayes approaches from a frequentist point of view optimization signal processing and statistical theory motivated by models in applied fields Materials prepared by famous scientists contain original scientific results which makes the publication valuable for researchers working in these fields The book concludes by a conversation of Vladimir Spokoiny with Markus Rei and Enno Mammen This interview gives some background on the life of Vladimir Spokoiny and his many scientific interests and motivations   *Statistical Models and Methods for Biomedical and Technical Systems* Filia Vonta,M.S. Nikulin,Nikolaos Limnios,Catherine Huber-Carol,2008-03-05 This book deals with the mathematical aspects of survival analysis and reliability as well as other topics reflecting recent developments in the following areas applications in epidemiology probabilistic and statistical models and methods in reliability models and methods in survival analysis longevity aging and degradation accelerated life models quality of life new statistical challenges in genomics The work will be useful to a broad interdisciplinary readership of researchers and practitioners in applied probability and statistics industrial statistics biomedicine biostatistics and engineering   *Series Approximation Methods in Statistics* John E. Kolassa,2006-09-23 This revised book presents theoretical results relevant to Edgeworth and saddlepoint expansions to densities and distribution functions It provides examples of their application in some simple and a few complicated settings along with numerical as well as asymptotic assessments of their accuracy Variants on these expansions including much of modern likelihood theory are discussed and applications to lattice distributions are extensively treated

Testing Statistical Hypotheses Erich L. Lehmann,Joseph P. Romano,2006-03-30 The third edition of Testing Statistical Hypotheses updates and expands upon the classic graduate text emphasizing optimality theory for hypothesis testing and confidence sets The principal additions include a rigorous treatment of large sample optimality together with the requisite tools In addition an introduction to the theory of resampling methods such as the bootstrap is developed The sections on

multiple testing and goodness of fit testing are expanded The text is suitable for Ph D students in statistics and includes over 300 new problems out of a total of more than 760 **Dependence in Probability and Statistics** Paul Doukhan,Gabriel Lang,Donatas Surgailis,Gilles Teyssière,2010-07-23 This account of recent works on weakly dependent long memory and multifractal processes introduces new dependence measures for studying complex stochastic systems and includes other topics such as the dependence structure of max stable processes **Space, Structure and Randomness** Michel Bilodeau,Fernand Meyer,Michel Schmitt,2007-12-23 Space structure and randomness these are the three key concepts underlying Georges Matheron s scientific work He first encountered them at the beginning of his career when working as a mining engineer and then they resurfaced in fields ranging from meteorology to microscopy What could these radically different types of applications possibly have in common First in each one only a single realisation of the phenomenon is available for study but its features repeat themselves in space second the sampling pattern is rarely regular and finally there are problems of change of scale This volume is divided in three sections on random sets geostatistics and mathematical morphology They reflect his professional interests and his search for underlying unity Some readers may be surprised to find theoretical chapters mixed with applied ones We have done this deliberately GM always considered that the distinction between the theory and practice was purely academic When GM tackled practical problems he used his skill as a physicist to extract the salient features and to select variables which could be measured meaningfully and whose values could be estimated from the available data Then he used his outstanding ability as a mathematician to solve the problems neatly and efficiently It was his capacity to combine a physicist s intuition with a mathematician s analytical skills that allowed him to produce new and innovative solutions to difficult problems The book should appeal to graduate students and researchers working in mathematics probability statistics physics spatial data analysis and image analysis In addition it will be of interest to those who enjoy discovering links between scientific disciplines that seem unrelated at first glance In writing the book the contributors have tried to put GM s ideas into perspective During his working life GM was a genuinely creative scientist He developed innovative concepts whose usefulness goes far beyond the confines of the discipline for which they were originally designed This is why his work remains as pertinent today as it was when it was first written **Probability Matching Priors: Higher Order Asymptotics** Gauri Sankar Datta,Rahul Mukerjee,2012-12-06 Probability matching priors ensuring frequentist validity of posterior credible sets up to the desired order of asymptotics are of substantial current interest They can form the basis of an objective Bayesian analysis In addition they provide a route for obtaining accurate frequentist confidence sets which are meaningful also to a Bayesian This monograph presents for the first time in book form an up to date and comprehensive account of probability matching priors addressing the problems of both estimation and prediction Apart from being useful to researchers it can be the core of a one semester graduate course in Bayesian asymptotics Gauri Sankar Datta is a professor of statistics at the University of Georgia He has published extensively in the fields of Bayesian

analysis likelihood inference survey sampling and multivariate analysis Rahul Mukerjee is a professor of statistics at the Indian Institute of Management Calcutta He co authored three other research monographs including A Calculus for Factorial Arrangements in this series A fellow of the Institute of Mathematical Statistics Dr Mukerjee is on the editorial boards of several international journals

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