

# **Springer Series in Statistics**

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**Emanuel Parzen**  
**Kunio Tanabe**  
**Genshiro Kitagawa**  
Editors

## **Selected Papers of Hirotugu Akaike**



Springer

# Selected Papers Of Hirotugu Akaike

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## **Selected Papers Of Hirotugu Akaike:**

*Selected Papers of Hirotugu Akaike* Emanuel Parzen, Kunio Tanabe, Genshiro Kitagawa, 2012-12-06 The pioneering research of Hirotugu Akaike has an international reputation for profoundly affecting how data and time series are analyzed and modelled and is highly regarded by the statistical and technological communities of Japan and the world His 1974 paper A new look at the statistical model identification IEEE Trans Automatic Control AC 19 716 723 is one of the most frequently cited papers in the area of engineering technology and applied sciences according to a 1981 Citation Classic of the Institute of Scientific Information It introduced the broad scientific community to model identification using the methods of Akaike's criterion AIC The AIC method is cited and applied in almost every area of physical and social science The best way to learn about the seminal ideas of pioneering researchers is to read their original papers This book reprints 29 papers of Akaike's more than 140 papers This book of papers by Akaike is a tribute to his outstanding career and a service to provide students and researchers with access to Akaike's innovative and influential ideas and applications To provide a commentary on the career of Akaike the motivations of his ideas and his many remarkable honors and prizes this book reprints A Conversation with Hirotugu Akaike by David F Findley and Emanuel Parzen published in 1995 in the journal Statistical Science This survey of Akaike's career provides each of us with a role model for how to have an impact on society by stimulating applied researchers to implement new statistical methods

**Smoothing Methods in Statistics** Jeffrey S. Simonoff, 2012-12-06 The existence of high speed inexpensive computing has made it easy to look at data in ways that were once impossible Where once a data analyst was forced to make restrictive assumptions before beginning the power of the computer now allows great freedom in deciding where an analysis should go One area that has benefited greatly from this new freedom is that of non parametric density distribution and regression function estimation or what are generally called smoothing methods Most people are familiar with some smoothing methods such as the histogram but are unlikely to know about more recent developments that could be useful to them If a group of experts on statistical smoothing methods are put in a room two things are likely to happen First they will agree that data analysts seriously underappreciate smoothing methods Smoothing methods use computing power to give analysts the ability to highlight unusual structure very effectively by taking advantage of people's abilities to draw conclusions from well designed graphics Data analysts should take advantage of this they will argue

**Robust Diagnostic Regression Analysis** Anthony Atkinson, Marco Riani, 2012-12-06 This book is about using graphs to understand the relationship between a regression model and the data to which it is fitted Because of the way in which models are fitted for example by least squares we can lose information about the effect of individual observations on inferences about the form and parameters of the model The methods developed in this book reveal how the fitted regression model depends on individual observations and on groups of observations Robust procedures can sometimes reveal this structure but downweight or discard some observations The novelty in our book is to combine robustness and a forward

search through the data with regression diagnostics and computer graphics We provide easily understood plots that use information from the whole sample to display the effect of each observation on a wide variety of aspects of the fitted model This bald statement of the contents of our book masks the excitement we feel about the methods we have developed based on the forward search We are continuously amazed each time we analyze a new set of data by the amount of information the plots generate and the insights they provide We believe our book uses comparatively elementary methods to move regression in a completely new and useful direction We have written the book to be accessible to students and users of statistical methods as well as for professional statisticians

**Smoothing Spline ANOVA Models** Chong Gu, 2013-03-09

Nonparametric function estimation with stochastic data otherwise known as smoothing has been studied by several generations of statisticians Assisted by the recent availability of ample desktop and laptop computing power smoothing methods are now finding their ways into everyday data analysis by practitioners While scores of methods have proved successful for univariate smoothing ones practical in multivariate settings number far less Smoothing spline ANOVA models are a versatile family of smoothing methods derived through roughness penalties that are suitable for both univariate and multivariate problems In this book the author presents a comprehensive treatment of penalty smoothing under a unified framework Methods are developed for i regression with Gaussian and non Gaussian responses as well as with censored life time data ii density and conditional density estimation under a variety of sampling schemes and iii hazard rate estimation with censored life time data and covariates The unifying themes are the general penalized likelihood method and the construction of multivariate models with built in ANOVA decompositions Extensive discussions are devoted to model construction smoothing parameter selection computation and asymptotic convergence Most of the computational and data analytical tools discussed in the book are implemented in R an open source clone of the popular S S PLUS language Code for regression has been distributed in the R package gss freely available through the Internet on CRAN the Comprehensive R Archive Network The use of gss facilities is illustrated in the book through simulated and real data examples

**Statistical**

**Methods in Software Engineering** Nozer D. Singpurwalla, Simon P. Wilson, 2012-12-06 This preface pertains to three issues that we would like to bring to the attention of the readers our objectives our intended audience and the nature of the material We have in mind several objectives The first is to establish a framework for dealing with uncertainties in software engineering and for using quantitative measures for decision making in this context The second is to bring into perspective the large body of work having statistical content that is relevant to software engineering which may not have appeared in the traditional outlets devoted to it Connected with this second objective is a desire to streamline and organize our own thinking and work in this area Our third objective is to provide a platform that facilitates an interface between computer scientists and statisticians to address a class of problems in computer science It appears that such an interface is necessary to provide the needed synergism for solving some difficult problems that the subject poses Our final objective is to serve as an agent for

stimulating more cross disciplinary research in computer science and statistics To what extent the material here will meet our objectives can only be assessed with the passage of time Our intended audience is computer scientists software engineers and reliability analysts who have some exposure to probability and statistics Applied statisticians interested in reliability problems are also a segment of our intended audience

**Permutation Methods** Paul W. Jr. Mielke, Kenneth J. Berry, 2013-06-29 The introduction of permutation tests by R A Fisher relaxed the parametric structure requirement of a test statistic For example the structure of the test statistic is no longer required if the assumption of normality is removed The between object distance function of classical test statistics based on the assumption of normality is squared Euclidean distance Because squared Euclidean distance is not a metric i e the triangle inequality is not satisfied it is not at all surprising that classical tests are severely affected by an extreme measurement of a single object A major purpose of this book is to take advantage of the relaxation of the structure of a statistic allowed by permutation tests While a variety of distance functions are valid for permutation tests a natural choice possessing many desirable properties is ordinary i e non squared Euclidean distance Simulation studies show that permutation tests based on ordinary Euclidean distance are exceedingly robust in detecting location shifts of heavy tailed distributions These tests depend on a metric distance function and are reasonably powerful for a broad spectrum of univariate and multivariate distributions Least sum of absolute deviations LAD regression linked with a permutation test based on ordinary Euclidean distance yields a linear model analysis which controls for type I error

*ARCH Models and Financial Applications* Christian Gouriéroux, 2012-12-06 The classical ARMA models have limitations when applied to the field of financial and monetary economics Financial time series present nonlinear dynamic characteristics and the ARCH models offer a more adaptive framework for this type of problem This book surveys the recent work in this area from the perspective of statistical theory financial models and applications and will be of interest to theorists and practitioners From the view point of statistical theory ARCH models may be considered as specific nonlinear time series models which allow for an exhaustive study of the underlying dynamics It is possible to reexamine a number of classical questions such as the random walk hypothesis prediction interval building presence of latent variables etc and to test the validity of the previously studied results There are two main categories of potential applications One is testing several economic or financial theories concerning the stocks bonds and currencies markets or studying the links between the short and long run The second is related to the interventions of the banks on the markets such as choice of optimal portfolios hedging portfolios values at risk and the size and times of block trading

**Statistical Design and Analysis for Intercropping Experiments** Walter T. Federer, 2008-01-08 Intercropping is an area of research for which there is a desperate need both in developing countries where people are rapidly depleting scarce resources and still starving and in developed countries where more ecologically and economically sound ways of feeding ourselves must be developed The only published guidelines for conducting such research and analyzing the data have been scattered about in various

journal articles many of which are hard to find This book condenses these methods and will be immensely valuable to agricultural researchers and to the statisticians who help them design their experiments and interpret their results

**Annotated Readings in the History of Statistics** H.A. David, A.W.F. Edwards, 2013-06-29 Interest in the history of statistics has grown substantially in recent years and the subject is now covered by a number of excellent books S M Stigler's *The History of Statistics* 1986 gives an overview up to 1900 while Anders Hald's two encyclopedic volumes *A History of Probability and Statistics before 1750* and *A History of Mathematical Statistics from 1750 to 1930* published in 1990 and 1995 provide detailed mathematical discussion of the major contributions up to 1930 Hald's books have removed Isaac Todhunter's *A History of Probability* from the pedestal which it occupied for a century and a quarter and rendered Karl Pearson's *Lecture Notes* of mainly historical interest themselves Journal papers have appeared on specific topics especially in the series *Studies in the History of Probability and Statistics in Biometrika* and in the long sequence of papers in *Archive for the History of the Exact Sciences* by O Sheynin The two volumes of reprinted papers mostly from *Biometrika* issued in 1970 and 1977 have proved particularly valuable More recently many important papers published since 1900 have been reprinted with commentaries in the three volume *Breakthroughs in Statistics* 1992 1997 Stigler's *Statistics on the Table* 1999 provides illuminating vignettes In addition specialized books have appeared on particular topics such as A I Dale's *A History of Inverse Probability* 1991 1999 and R W Farebrother's *Fitting Linear Relationships* 1999 The pioneering book on the early period F N *Exponential Families of Stochastic Processes* Uwe Küchler, Michael Sørensen, 2006-05-09

Exponential families of stochastic processes are parametric stochastic process models for which the likelihood function exists at all finite times and has an exponential representation where the dimension of the canonical statistic is finite and independent of time This definition not only covers many practically important stochastic process models it also gives rise to a rather rich theory This book aims at showing both aspects of exponential families of stochastic processes Exponential families of stochastic processes are tractable from an analytical as well as a probabilistic point of view Therefore and because the theory covers many important models they form a good starting point for an investigation of the statistics of stochastic processes and cast interesting light on basic inference problems for stochastic processes Exponential models play a central role in classical statistical theory for independent observations where it has often turned out to be informative and advantageous to view statistical problems from the general perspective of exponential families rather than studying individually specific exponential families of probability distributions The same is true of stochastic process models Thus several published results on the statistics of particular process models can be presented in a unified way within the framework of exponential families of stochastic processes Tools for Statistical Inference Martin A. Tanner, 2012-12-06 This book provides a unified introduction to a variety of computational algorithms for Bayesian and likelihood inference In this third edition I have attempted to expand the treatment of many of the techniques discussed I have added some new examples as well as included

recent results Exercises have been added at the end of each chapter Prerequisites for this book include an understanding of mathematical statistics at the level of Bickel and Doksum 1977 some understanding of the Bayesian approach as in Box and Tiao 1973 some exposure to statistical models as found in McCullagh and Nelder 1989 and for Section 6.6 some experience with conditional inference at the level of Cox and Snell 1989 I have chosen not to present proofs of convergence or rates of convergence for the Metropolis algorithm or the Gibbs sampler since these may require substantial background in Markov chain theory that is beyond the scope of this book However references to these proofs are given There has been an explosion of papers in the area of Markov chain Monte Carlo in the past ten years I have attempted to identify key references though due to the volatility of the field some work may have been missed

**Permutation Tests** Phillip Good, 2013-04-17 In 1982 I published several issues of a samizdat scholarly journal called Randomization with the aid of an 8 bit 1 MH personal computer with 48K of memory upgraded to 64K later that year and floppy disks that held 400 Kbytes A decade later working on the first edition of this text I used a 16 bit 33 MH computer with 1 Mb of memory and a 20 Mb hard disk This preface to the second edition comes to you via a 32 bit 300 MH computer with 64 Mb memory and a 4 Gb hard disk And yes I paid a tenth of what I paid for my first computer This relationship between low cost readily available computing power and the rising popularity of permutation tests is no coincidence Simply put it is faster today to compute an exact p value than to look up an approximation in a table of the not quite appropriate statistic As a result more and more researchers are using Permutation Tests to analyze their data Of course some of the increased usage has also come about through the increased availability of and improvements in off the shelf software as can be seen in the revisions in this edition to Chapter 12

**Publishing Your Results and Chapter 13 Increasing Computation Efficiency** **Nonparametric Curve Estimation** Sam Efromovich, 2008-01-19 This book gives a systematic comprehensive and unified account of modern nonparametric statistics of density estimation nonparametric regression filtering signals and time series analysis The companion software package available over the Internet brings all of the discussed topics into the realm of interactive research Virtually every claim and development mentioned in the book is illustrated with graphs which are available for the reader to reproduce and modify making the material fully transparent and allowing for complete interactivity

**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 randomness For statisticians working within the traditional statistical framework the task of critically assimilating randomness generated by a purely deterministic 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 concerned 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 Studies University of British Columbia and the graduate courses on Time Series Analysis at the University of Iowa the University of Hong Kong the London 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 Shimada Floris Takens and Qiwei Yao

*Subsampling* Dimitris N. Politis, Joseph P. Romano, Michael Wolf, 1999-08-13 The crux of the method relies on recomputing a statistic over appropriate subsamples of the data and using these recomputed values to build up a sampling distribution Readers are assumed to have a background roughly equivalent to a first year graduate course in theoretical statistics A large number of examples should make the book of interest to graduate students researchers and practitioners alike

**BOOK JACKET**

**Pattern Recognition** Jesús Ariel Carrasco-Ochoa, José Francisco Martínez-Trinidad, José Arturo Olvera-López, Joaquín Salas, 2019-06-19 This book constitutes the proceedings of the 11th Mexican Conference on Pattern Recognition MCPR 2019 held in Querétaro Mexico in June 2019 The 40 papers presented in this volume were carefully reviewed and selected from 86 submissions They were organized in topical sections named artificial intelligence techniques and recognition computer vision industrial and medical applications of pattern recognition image processing and analysis pattern recognition techniques signal processing and analysis natural language and processing and recognition

Gene and Environment Interactions in Neurodevelopmental Disorders Lorenzo More, Carmem Gottfried, Patricia Pelufo Silveira, 2022-04-25

*Progress in Artificial Intelligence* Carlos Bento, 2005-11-30 This book constitutes the refereed proceedings of the 12th Portuguese Conference on Artificial Intelligence EPIA 2005 held in Covilhã Portugal in December 2005 as nine integrated workshops The 58 revised full papers presented were carefully reviewed and selected from a total of 167 submissions In accordance with the nine constituting workshops the papers are organized in topical sections on general artificial intelligence GAIW 2005 affective computing AC 2005 artificial life and evolutionary algorithms ALEA 2005 building and applying ontologies for the semantic Web BAOSW 2005 computational methods in bioinformatics CMB 2005 extracting knowledge from databases and warehouses EKDB W 2005 intelligent robotics IROBOT 2005 multi agent systems theory and applications MASTA 2005 and text mining and applications TEMA 2005

**The ACCOBAMS Survey Initiative (ASI): Implementing Large Scale Surveys for Marine Megafauna in the Mediterranean and Black Seas** Simone Panigada, Vincent Ridoux, Ayaka Amaha Ozturk, Nejla Bejaoui, Oliver Boisseau, 2024-11-20 It is estimated that almost 10% of the worldwide marine biodiversity is encountered in the Mediterranean Sea which only represents 1% of oceans seas Whales dolphins and other marine megafauna seabirds turtles large fish play a key role in maintaining the equilibrium of marine ecosystems and are an essential component of the natural heritage of Mediterranean and Black Sea countries However these species face a variety of significant threats risk of



collisions with maritime traffic bycatch in fishing gears habitat degradation acoustic disturbance chemical pollution and marine litter climate change The ACCOBAMS Survey Initiative ASI is a pilot program aimed at establishing an integrated and coordinated monitoring system for cetaceans throughout the entire ACCOBAMS area Mediterranean and Black Seas Conducted in coordination with riparian countries it supports the implementation of European and regional policies in particular the Marine Strategy Framework Directive MSFD EU and the Ecosystem Approach process Barcelona Convention UNEP MAP In summer 2018 2019 a synoptic line transect sampling survey was carried out across the Black Sea Mediterranean Sea and contiguous Atlantic area combining visual methods aerial surveys and visual and passive acoustic monitoring PAM from vessels focused primarily on deep diving species and areas where aerial surveys were not possible

**Time Series Analysis and Applications to Geophysical Systems** David Brillinger, Peter Caines, John Geweke, Emanuel Parzen, Murray Rosenblatt, Murad S. Taqqu, 2012-12-06 Part of a two volume set based on a recent IMA program of the same name The goal of the program and these books is to develop a community of statistical and other scientists kept up to date on developments in this quickly evolving and interdisciplinary field Consequently these books present recent material by distinguished researchers Topics discussed in Part I include nonlinear and non Gaussian models and processes higher order moments and spectra nonlinear systems applications in astronomy geophysics engineering and simulation and the interaction of time series analysis and statistics information model identification categorical valued time series nonparametric and semiparametric methods Self similar processes and long range dependence time series with long memory fractals  $1/f$  noise stable noise and time series research common to engineers and economists modeling of multivariate and possibly non stationary time series state space and adaptive methods are discussed in Part II

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