# Springer Series in Statistics

J.O. Ramsay B.W. Silverman

Functional Data Analysis



# <u>Inference For Functional Data With Applications</u> <u>Springer Series In Statistics</u>

**RJ Alexander** 

#### **Inference For Functional Data With Applications Springer Series In Statistics:**

Inference for Functional Data with Applications Lajos Horváth, Piotr Kokoszka, 2012-05-08 This book presents recently developed statistical methods and theory required for the application of the tools of functional data analysis to problems arising in geosciences finance economics and biology It is concerned with inference based on second order statistics especially those related to the functional principal component analysis While it covers inference for independent and identically distributed functional data its distinguishing feature is an in depth coverage of dependent functional data structures including functional time series and spatially indexed functions Specific inferential problems studied include two sample inference change point analysis tests for dependence in data and model residuals and functional prediction All procedures are described algorithmically illustrated on simulated and real data sets and supported by a complete asymptotic theory The book can be read at two levels Readers interested primarily in methodology will find detailed descriptions of the methods and examples of their application Researchers interested also in mathematical foundations will find carefully developed theory The organization of the chapters makes it easy for the reader to choose an appropriate focus The book introduces the requisite and frequently used Hilbert space formalism in a systematic manner This will be useful to graduate or advanced undergraduate students seeking a self contained introduction to the subject Advanced researchers will find novel asymptotic arguments **Inference for Functional Data with Applications** Springer, 2012-05-09 Geostatistical Functional Data Analysis Jorge Mateu, Ramon Giraldo, 2021-11-16 Geostatistical Functional Data Analysis Explore the intersection between geostatistics and functional data analysis with this insightful new reference Geostatistical Functional Data Analysis presents a unified approach to modelling functional data when spatial and spatio temporal correlations are present The Editors link together the wide research areas of geostatistics and functional data analysis to provide the reader with a new area called geostatistical functional data analysis that will bring new insights and new open questions to researchers coming from both scientific fields This book provides a complete and up to date account to deal with functional data that is spatially correlated but also includes the most innovative developments in different open avenues in this field Containing contributions from leading experts in the field this practical guide provides readers with the necessary tools to employ and adapt classic statistical techniques to handle spatial regression. The book also includes A thorough introduction to the spatial kriging methodology when working with functions A detailed exposition of more classical statistical techniques adapted to the functional case and extended to handle spatial correlations Practical discussions of ANOVA regression and clustering methods to explore spatial correlation in a collection of curves sampled in a region In depth explorations of the similarities and differences between spatio temporal data analysis and functional data analysis Aimed at mathematicians statisticians postgraduate students and researchers involved in the analysis of functional and spatial data Geostatistical Functional Data Analysis will also prove to be a powerful addition to the libraries of geoscientists environmental scientists

and economists seeking insightful new knowledge and questions at the interface of geostatistics and functional data analysis Time Series Analysis: Methods and Applications, 2012-05-18 The field of statistics not only affects all areas of scientific activity but also many other matters such as public policy It is branching rapidly into so many different subjects that a series of handbooks is the only way of comprehensively presenting the various aspects of statistical methodology applications and recent developments The Handbook of Statistics is a series of self contained reference books Each volume is devoted to a particular topic in statistics with Volume 30 dealing with time series The series is addressed to the entire community of statisticians and scientists in various disciplines who use statistical methodology in their work At the same time special emphasis is placed on applications oriented techniques with the applied statistician in mind as the primary audience Comprehensively presents the various aspects of statistical methodology Discusses a wide variety of diverse applications and recent developments Contributors are internationally renowened experts in their respective areas Introduction to Functional Data Analysis Piotr Kokoszka, Matthew Reimherr, 2017-09-27 Introduction to Functional Data Analysis provides a concise textbook introduction to the field It explains how to analyze functional data both at exploratory and inferential levels It also provides a systematic and accessible exposition of the methodology and the required mathematical framework The book can be used as textbook for a semester long course on FDA for advanced undergraduate or MS statistics majors as well as for MS and PhD students in other disciplines including applied mathematics environmental science public health medical research geophysical sciences and economics It can also be used for self study and as a reference for researchers in those fields who wish to acquire solid understanding of FDA methodology and practical guidance for its implementation Each chapter contains plentiful examples of relevant R code and theoretical and data analytic problems The material of the book can be roughly divided into four parts of approximately equal length 1 basic concepts and techniques of FDA 2 functional regression models 3 sparse and dependent functional data and 4 introduction to the Hilbert space framework of FDA The book assumes advanced undergraduate background in calculus linear algebra distributional probability theory foundations of statistical inference and some familiarity with R programming Other required statistics background is provided in scalar settings before the related functional concepts are developed Most chapters end with references to more advanced research for those who wish to gain a more in depth understanding of a specific topic Cladag 2017 Book of Short Papers Francesca Greselin, Francesco Mola, Mariangela Zenga, 2017-09-29 This book is the collection of the Abstract Short Papers submitted by the authors of the International Conference of The CLAssification and Data Analysis Group CLADAG of the Italian Statistical Society SIS held in Milan Italy on September 13 15 2017 Trends in Mathematical, Information and Data Sciences Narayanaswamy Balakrishnan, María Ángeles Gil, Nirian Martín, Domingo Morales, María del Carmen Pardo, 2022-06-27 This book involves ideas results from the topics of mathematical information and data sciences in connection with the main research interests of Professor Pardo that can be summarized as Information Theory with

Applications to Statistical Inference This book is a tribute to Professor Leandro Pardo who has chaired the Department of Statistics and OR of the Complutense University in Madrid and he has been also President of the Spanish Society of Statistics and Operations Research In this way the contributions have been structured into three parts which often overlap to a greater or lesser extent namely Trends in Mathematical Sciences Part I Trends in Information Sciences Part II Trends in Data Sciences Part III The contributions gathered in this book have offered either new developments from a theoretical and or computational and or applied point of view or reviews of recent literature of outstanding developments They have been applied through nice examples in climatology chemistry economics engineering geology health sciences physics pandemics and socioeconomic indicators Consequently the intended audience of this book is mainly statisticians mathematicians computer scientists and so on but users of these disciplines as well as experts in the involved applications may certainly find this book a very interesting read Studies in Neural Data Science Antonio Canale, Daniele Durante, Lucia Paci, Bruno Scarpa, 2018-12-28 This volume presents a collection of peer reviewed contributions arising from StartUp Research a stimulating research experience in which twenty eight early career researchers collaborated with seven senior international professors in order to develop novel statistical methods for complex brain imaging data During this meeting which was held on June 25 27 2017 in Siena Italy the research groups focused on recent multimodality imaging datasets measuring brain function and structure and proposed a wide variety of methods for network analysis spatial inference graphical modeling multiple testing dynamic inference data fusion tensor factorization object oriented analysis and others The results of their studies are gathered here along with a final contribution by Michele Guindani and Marina Vannucci that opens new research directions in this field The book offers a valuable resource for all researchers in Data Science and Neuroscience who are interested in the promising intersections of these two fundamental disciplines Essays in Honor of Cheng Hsiao Dek Terrell, Tong Li, M. Hashem Pesaran, 2020-04-15 Including contributions spanning a variety of theoretical and applied topics in econometrics this volume of Advances in Econometrics is published in honour of Cheng Hsiao **Flexible Nonparametric Curve Estimation** Hassan Doosti, 2024-09-04 This book delves into the realm of nonparametric estimations offering insights into essential notions such as probability density regression Tsallis Entropy Residual Tsallis Entropy and intensity functions Through a series of carefully crafted chapters the theoretical foundations of flexible nonparametric estimators are examined complemented by comprehensive numerical studies From theorem elucidation to practical applications the text provides a deep dive into the intricacies of nonparametric curve estimation Tailored for postgraduate students and researchers seeking to expand their understanding of nonparametric statistics this book will serve as a valuable resource for anyone who wishes to explore the applications of flexible nonparametric techniques **Functional Data** Analysis with R Ciprian M. Crainiceanu, Jeff Goldsmith, Andrew Leroux, Erjia Cui, 2024-03-11 Emerging technologies generate data sets of increased size and complexity that require new or updated statistical inferential methods and scalable

reproducible software These data sets often involve measurements of a continuous underlying process and benefit from a functional data perspective Functional Data Analysis with R presents many ideas for handling functional data including dimension reduction techniques smoothing functional regression structured decompositions of curves and clustering The idea is for the reader to be able to immediately reproduce the results in the book implement these methods and potentially design new methods and software that may be inspired by these approaches Features Functional regression models receive a modern treatment that allows extensions to many practical scenarios and development of state of the art software The connection between functional regression penalized smoothing and mixed effects models is used as the cornerstone for inference Multilevel longitudinal and structured functional data are discussed with emphasis on emerging functional data structures Methods for clustering functional data before and after smoothing are discussed Multiple new functional data sets with dense and sparse sampling designs from various application areas are presented including the NHANES linked accelerometry and mortality data COVID 19 mortality data CD4 counts data and the CONTENT child growth study Step by step software implementations are included along with a supplementary website www FunctionalDataAnalysis com featuring software data and tutorials More than 100 plots for visualization of functional data are presented Functional Data Analysis with R is primarily aimed at undergraduate master s and PhD students as well as data scientists and researchers working on functional data analysis The book can be read at different levels and combines state of the art software methods and inference It can be used for self learning teaching and research and will particularly appeal to anyone who is interested in practical methods for hands on problem forward functional data analysis The reader should have some basic coding experience but expertise in R is not required Contributions in infinite-dimensional statistics and related topics Enea G. Bongiorno, Ernesto Salinelli, Aldo Goia, Philippe Vieu, 2014-05-21 The interest towards Functional and Operatorial Statistics and more in general towards infinite dimensional statistics has dramatically increased in the statistical community and in many other applied scientific areas where people faces functional data This volume collects the works selected and presented at the Third Edition of the International Workshop on Functional and Operatorial Statistics held in Stresa Italy from the 19th to the 21st of June 2014 IWFOS 2014 The meeting represents an opportunity of bringing together leading researchers active on these topics both for what concerns theoretical aspects and a wide range of applications in various fields To promote collaborations with other important strictly related areas of infinite dimensional Statistics such as High Dimensional Statistics and Model Selection Procedures this book hosts works in the latter research subjects too Strateaic Analysis Of Financial Markets, The (In 2 Volumes) Steven D Moffitt, 2017-03-24 Volume 1 of The Strategic Analysis of Financial Markets Framework is premised on the belief that markets can be understood only by dropping the assumptions of rationality and efficient markets in their extreme forms and showing that markets still have an inherent order and inherent logic But that order results primarily from the predictable irrationality of investors as well as from people s uncoordinated

attempts to profit The market patterns that result do not rely on rationality or efficiency A framework is developed for understanding financial markets using a combination of psychology statistics game and gambling analysis market history and the author's experience It expresses analytically how professional investors and traders think about markets as games in which other participants employ inferior partially predictable strategies. Those strategies interactions can be toxic and lead to booms bubbles busts and crashes or can be less dramatic leading to various patterns that are mistakenly called market inefficiencies and stylized facts A logical case is constructed starting from two foundations the psychology of human decision making and the Fundamental Laws of Gambling Applying the Fundamental Laws to trading leads to the idea of gambling rationality grationality replacing the efficient market's concept of rationality By classifying things that are likely to have semi predictable price impacts price distorters one can identify explore through data analysis and create winning trading ideas and systems A structured way of doing all this is proposed the six step Strategic Analysis of Market Method Examples are given in this and Volume 2 Volume 2 of The Strategic Analysis of Financial Markets Trading System Analytics continues the development of Volume 1 by introducing tools and techniques for developing trading systems and by illustrating them using real markets The difference between these two Volumes and the rest of the literature is its rigor It describes trading as a form of gambling that when properly executed is quite logical and is well known to professional gamblers and analytical traders But even those elites might be surprised at the extent to which quantitative methods have been justified and applied including a life cycle theory of trading systems Apart from a few sections that develop background material Volume 2 creates from scratch a trading system for Eurodollar futures using principles of the Strategic Analysis of Markets Method SAMM a principled step by step approach to developing profitable trading systems It has an entire Chapter on mechanical methods for testing and improvement of trading systems which transcends the rather unstructured and unsatisfactory backtesting literature It presents a breakout trend following system developed using factor models It also presents a specific pairs trading system and discusses its life cycle from an early highly profitable period to its eventual demise Recent developments in momentum trading and suggestions on improvements are also discussed Mobility Management and Quality-Of-Service for Heterogeneous Networks Demetres D. Kouvatsos, 2009-03-13 Considerable attention is currently devoted worldwide toward mobility issues and challenges such as those arising from the integration of the next generation Internet over terrestrial digital TV mobile user location management and multi service mobile networks subject to quality of service QoS routing This book follows Heterogeneous Networks Performance Modelling and Analysis It describes recent advances in mobile and wireless networks and the Internet reflecting the state of the art technology and achievements in the study of mobility management performance enhancement optimal admission control and QoS worldwide Technical topics discussed in the book include Mobility Management Optimal Admission Control Performance Modelling Studies Access Network Coverage Quality of Service QoS Mobility Management and Quality of Service for Heterogeneous Networks contains recently extended

research papers which have their roots in the series of the HET NETs International Working Conferences They focus on the Performance Modelling and Evaluation of Heterogeneous Networks under the auspices of the EU Networks of Excellence Euro NGI and Euro FGI This book is ideal for personnel in computer communication industries as well as academic staff and master research students in computer science operational research electrical engineering and telecommunication systems

Correlated Data Analysis: Modeling, Analytics, and Applications Xue-Kun Song, Peter X. -K. Song, 2007-07-27 This book covers recent developments in correlated data analysis It utilizes the class of dispersion models as marginal components in the formulation of joint models for correlated data This enables the book to cover a broader range of data types than the traditional generalized linear models The reader is provided with a systematic treatment for the topic of estimating functions and both generalized estimating equations GEE and quadratic inference functions QIF are studied as special cases In addition to the discussions on marginal models and mixed effects models this book covers new topics on joint regression analysis based on Gaussian copulas 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 **Inference and Prediction in Large Dimensions** Denis Bosq, Delphine Blanke, 2008-03-11 This book offers a predominantly theoretical coverage of statistical prediction with some potential applications discussed when data and or parameters belong to a large or infinite dimensional space It develops the theory of statistical prediction non parametric estimation by adaptive projection with applications to tests of fit and prediction and theory of linear processes in function spaces with applications to prediction of continuous time processes

This work is in the Wiley Dunod Series co published between Dunod www dunod com and John Wiley and Sons Ltd Change Point Analysis Baisuo Jin, Jialiang Li, 2025-08-29 Change point analysis is a crucial statistical technique for detecting structural breaks within datasets applicable in diverse fields such as finance and weather forecasting The authors of this book aim to consolidate recent advancements and broaden the scope beyond traditional time series applications to include biostatistics longitudinal data analysis high dimensional data and network analysis The book introduces foundational concepts with practical data examples from literature alongside discussions of related machine learning topics Subsequent chapters focus on mathematical tools for single and multiple change point detection along with statistical inference issues which provide rigorous proofs to enhance understanding but assume readers have foundational knowledge in graduate level probability and statistics. The book also expands the discussion into threshold regression frameworks linked to subgroup identification in modern statistical learning and apply change point analysis to functional data and dynamic networks areas not comprehensively covered elsewhere Key Features Comprehensive Coverage of Diverse Applications This book expands the scope of change point analysis to include biostatistics longitudinal data high dimensional data and network analysis This broad applicability makes it a valuable resource for researchers and students across various disciplines Integration of Theory and Practice The book balances rigorous mathematical theory with practical applications by providing extensive computational examples using R Each chapter features real world data illustrations and discussions of relevant machine learning topics ensuring that readers can see the relevance of theoretical concepts in applied settings Accessibility for Students The content is designed with graduate level students in mind providing clear explanations and structured guidance through complex mathematical tools Rigorous proofs are included to facilitate understanding without overwhelming readers with overly advanced theories early on The book incorporates computational results using R showcasing various packages tailored for specific methods or problem domains while providing references for further exploration By offering a selection of widely adopted methodologies relevant in scientific research as well as business contexts this text aims to equip junior researchers with essential tools needed for their work in change point analysis Gaussian Process Regression Analysis for Functional Data Jian Qing Shi, Taeryon Choi, 2011-07-01 Gaussian Process Regression Analysis for Functional Data presents nonparametric statistical methods for functional regression analysis specifically the methods based on a Gaussian process prior in a functional space The authors focus on problems involving functional response variables and mixed covariates of functional and scalar variables Covering the basics of Gaussian process regression the first several chapters discuss functional data analysis theoretical aspects based on the asymptotic properties of Gaussian process regression models and new methodological developments for high dimensional data and variable selection. The remainder of the text explores advanced topics of functional regression analysis including novel nonparametric statistical methods for curve prediction curve clustering functional ANOVA and functional regression analysis of batch data repeated curves and non Gaussian data

Many flexible models based on Gaussian processes provide efficient ways of model learning interpreting model structure and carrying out inference particularly when dealing with large dimensional functional data This book shows how to use these Gaussian process regression models in the analysis of functional data Some MATLAB and C codes are available on the first author's website Quantifying Uncertainty in Subsurface Systems Céline Scheidt, Lewis Li, Jef Caers, 2018-04-27 Under the Earth's surface is a rich array of geological resources many with potential use to humankind However extracting and harnessing them comes with enormous uncertainties high costs and considerable risks. The valuation of subsurface resources involves assessing discordant factors to produce a decision model that is functional and sustainable. This volume provides real world examples relating to oilfields geothermal systems contaminated sites and aquifer recharge Volume highlights include A multi disciplinary treatment of uncertainty quantification Case studies with actual data that will appeal to methodology developers A Bayesian evidential learning framework that reduces computation and modeling time Quantifying Uncertainty in Subsurface Systems is a multidisciplinary volume that brings together five major fields information science decision science geosciences data science and computer science It will appeal to both students and practitioners and be a valuable resource for geoscientists engineers and applied mathematicians Read the Editors Vox https eos org editors vox quantifying uncertainty about earths resources

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