Springer Series in Statistics

Lajos Horváth Piotr Kokoszka

Inference for Functional Data with Applications



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Inference For Functional Data With Applications Inference For Functional Data With Applications:

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 Inference for Functional Data with Applications Springer, 2012-05-09 novel asymptotic arguments 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 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 Introduction to Functional Data Analysis Piotr Kokoszka, Matthew interface of geostatistics and functional data analysis 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 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 Analysis of Variance for Functional Data Jin-Ting Zhang, 2013-06-18 Despite research interest in functional data analysis in the last three decades few books are available on the subject Filling this gap Analysis of Variance for Functional Data presents up to date hypothesis testing methods for functional data analysis The book covers the reconstruction of functional observations functional ANOVA functional l 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 Nonparametric Statistics Michele La Rocca, Brunero Liseo, Luigi Salmaso, 2020-11-11 Highlighting the latest advances in nonparametric and semiparametric statistics this book gathers selected peer reviewed contributions presented at the 4th Conference of the International Society for Nonparametric Statistics ISNPS held in Salerno Italy on June 11 15 2018 It covers theory methodology applications and computational aspects addressing topics such as nonparametric curve estimation regression smoothing models for time series and more generally dependent data varying coefficient models symmetry testing robust estimation and rank based methods for factorial design It also discusses nonparametric and permutation solutions for several different types of data including ordinal data spatial data survival data and the joint modeling of both longitudinal and time to event data permutation and resampling techniques and practical applications of nonparametric statistics The International Society for Nonparametric Statistics is a unique global organization and its international conferences are intended to foster the exchange of ideas and the latest advances and trends among researchers from around the world and to develop and disseminate nonparametric statistics knowledge The ISNPS 2018 conference in Salerno was organized with the support of the American Statistical Association the Institute of Mathematical Statistics the Bernoulli Society for Mathematical Statistics

and Probability the Journal of Nonparametric Statistics and the University of Salerno **Handbook of Big Data Analytics** Wolfgang Karl Härdle, Henry Horng-Shing Lu, Xiaotong Shen, 2018-07-20 Addressing a broad range of big data analytics in cross disciplinary applications this essential handbook focuses on the statistical prospects offered by recent developments in this field To do so it covers statistical methods for high dimensional problems algorithmic designs computation tools analysis flows and the software hardware co designs that are needed to support insightful discoveries from big data The book is primarily intended for statisticians computer experts engineers and application developers interested in using big data analytics with statistics Readers should have a solid background in statistics and computer science **Interpretability for** Industry 4.0: Statistical and Machine Learning Approaches Antonio Lepore, Biagio Palumbo, Jean-Michel Poggi, 2022-10-19 This volume provides readers with a compact stimulating and multifaceted introduction to interpretability a key issue for developing insightful statistical and machine learning approaches as well as for communicating modelling results in business and industry Different views in the context of Industry 4 0 are offered in connection with the concepts of explainability of machine learning tools generalizability of model outputs and sensitivity analysis Moreover the book explores the integration of Artificial Intelligence and robust analysis of variance for big data mining and monitoring in Additive Manufacturing and sheds new light on interpretability via random forests and flexible generalized additive models together with related software resources and real world examples International Encyclopedia of Statistical Science Miodrag Lovric, 2025-06-19 The International Encyclopedia of Statistical Science stands as a monumental effort to enrich statistics education globally particularly in regions facing educational challenges By amalgamating the expertise of over 700 authors from 110 countries including Nobel Laureates and presidents of statistical societies it offers an unparalleled resource for readers worldwide This encyclopedia is not just a collection of entries it is a concerted effort to revive statistics as a vibrant critical field of study and application Providing a comprehensive and accessible account of statistical terms methods and applications it enables readers to gain a quick insight into the subject regardless of their background This work serves to refresh and expand the knowledge of researchers managers and practitioners highlighting the relevance and applicability of statistics across various fields from economics and business to healthcare and public policy Furthermore it aims to inspire students by demonstrating the significance of statistics in solving real world problems thus encouraging a new generation to explore and contribute to the field Advances and Innovations in Statistics and Data Science Wenging He, Liqun Wang, Jiahua Chen, Chunfang Devon Lin, 2022-10-27 This book highlights selected papers from the 4th ICSA Canada Chapter Symposium as well as invited articles from established researchers in the areas of statistics and data science It covers a variety of topics including methodology development in data science such as methodology in the analysis of high dimensional data feature screening in ultra high dimensional data and natural language ranking statistical analysis challenges in sampling multivariate survival models and contaminated data as well as applications of statistical methods With this book

readers can make use of frontier research methods to tackle their problems in research education training and consultation Advanced Studies in Classification and Data Science Tadashi Imaizumi, Akinori Okada, Sadaaki Miyamoto, Fumitake Sakaori, Yoshiro Yamamoto, Maurizio Vichi, 2020-09-25 This edited volume focuses on the latest developments in classification and data science and covers a wide range of topics in the context of data analysis and related areas e g the analysis of complex data analysis of qualitative data methods for high dimensional data dimensionality reduction data visualization multivariate statistical methods and various applications to real data in the social sciences medical sciences and other disciplines In addition to sharing theoretical and methodological findings the book shows how to apply the proposed methods to a variety of problems e g in consumer behavior decision making marketing data and social network structures Both methodological aspects and applications to a wide range of areas such as economics behavioral science marketing science management science and the social sciences are covered The book is chiefly intended for researchers and practitioners who are interested in the latest developments and practical applications in these fields as well as applied statisticians and data analysts Its combination of methodological advances with a wide range of real world applications gathered from several fields makes it of unique value in helping readers solve their research problems 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 Rationality in a Complex World Theodore Chadjipadelis, Berthold Lausen, Angelos Markos, Tae Rim Lee, Angela Montanari, Rebecca Nugent, 2021-02-15 This volume presents the latest advances in statistics and data science including theoretical methodological and computational developments and practical applications related to classification and clustering data gathering exploratory and multivariate data analysis statistical modeling and knowledge discovery and seeking It includes contributions on analyzing and interpreting large complex and aggregated datasets and highlights numerous applications in economics finance computer science political science and education It gathers a selection of peer reviewed contributions presented at the 16th Conference of the International Federation of Classification Societies IFCS 2019 which was organized by the Greek Society of Data Analysis and held in Thessaloniki Greece on August 26 29 2019 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 Coveri 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 New Advances in Statistics and Data Science Ding-Geng Chen, Zhezhen Jin, Gang Li, Yi this book a very interesting read Li, Aiyi Liu, Yichuan Zhao, 2018-01-17 This book is comprised of the presentations delivered at the 25th ICSA Applied Statistics Symposium held at the Hyatt Regency Atlanta on June 12 15 2016 This symposium attracted more than 700 statisticians and data scientists working in academia government and industry from all over the world The theme of this conference was the Challenge of Big Data and Applications of Statistics in recognition of the advent of big data era and the symposium offered opportunities for learning receiving inspirations from old research ideas and for developing new ones and for promoting further research collaborations in the data sciences The invited contributions addressed rich topics closely related to big data analysis in the data sciences reflecting recent advances and major challenges in statistics business statistics and biostatistics Subsequently the six editors selected 19 high quality presentations and invited the speakers to prepare full chapters for this book which showcases new methods in statistics and data sciences emerging theories and case applications from statistics data science and interdisciplinary fields The topics covered in the book are timely and have great impact on data sciences identifying important directions for future research promoting advanced statistical methods in big data science and facilitating future collaborations across disciplines and between theory and practice **Nonparametric Functional Data** Analysis Frédéric Ferraty, Philippe Vieu, 2006-11-22 Modern apparatuses allow us to collect samples of functional data mainly curves but also images On the other hand nonparametric statistics produces useful tools for standard data exploration This book links these two fields of modern statistics by explaining how functional data can be studied through parameter free statistical ideas At the same time it shows how functional data can be studied through parameter free statistical ideas and offers an original presentation of new nonparametric statistical methods for functional data analysis

The Top Books of the Year Inference For Functional Data With Applications Inference For Functional Data With Applications The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the captivating narratives that have charmed audiences this year. Inference For Functional Data With Applications Inference For Functional Data With Applications: Colleen Hoovers "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best: Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Inference For Functional Data With Applications Inference For Functional Data With Applications: Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and suspenseful novel that will keep you wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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