
Inference For Functional Data With Applications

statistical inferences for functional data - arxiv - with modern technology development, functional data are being observed frequently in many scientific fields. a popular method for analyzing such functional data is "smoothing first, then estimation." that is, statistical inference such as estimation and hypothesis testing about functional data is conducted based on the substitution of **nonparametric inference in functional data** - the existing methods for inference rely on functional principle component analysis (fPCA), which requires the covariance kernel and reproducing kernel to share common ordered eigenfunctions, i.e., perfectly aligned; muller and ... nonparametric inference in functional data ... **inference for functional data with applications** - 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 **statistical computation and inference for functional data ...** - statistical computation and inference for functional data analysis a thesis presented to the academic faculty by huijing jiang in partial fulfillment of the requirements for the degree doctor of philosophy in the the h. milton stewart school of industrial and systems engineering georgia institute of technology december 2010 **inference of functional clustering patterns from non ...** - • learning functional relationships, but functional data are unavailable - functional clustering - differs from (non-linear) regression - "co-clustering", involving co-varying mixture distributions • hierarchical and nonparametric bayesian method • intuitive computational algorithms for statistical inference **causal inference and data science: why they need each other** - causal inference and data science: why they need each other jennifer hill ... why causal inference needs data science ... important or the functional form of the relationship between predictors and the outcome - it finds interactions and non-linearities! this helps to keep the researcher honest! **multi-aspect local inference for functional data: analysis ...** - focusing on inference on functional data. in the literature of non-parametric tests of univariate data, some methods have been proposed to jointly test several aspects of the data (e.g., differences between two populations in terms of mean and variance). this problem is often referred to as "multi-aspect" testing (brombin and salmaso 2009; pesarin **simultaneous inference for the mean function based on ...** - simultaneous inference for the mean function based on dense functional data guanqun cao, lijian yang, b* and david todemc a center for advanced statistics and econometrics research, soochow university, suzhou 215006, people's republic of china; b department of statistics and probability, michigan state university, east **adaptive inference for the bivariate mean function in ...** - not discussed. inference methods for the bivariate mean function of a bivariate random field are discussed in this work when the observed data consists of functional data on a two-dimensional domain. the methods are adaptive and use individual surface projections and thresholding within orthonormal basis expansion set - **simultaneous inference for misaligned multivariate ...** - 2 modeling and inference for misaligned multivariate functional data consider the multivariate functional observation in figure 1. the figure displays a walking sequence in three-dimensional space of a person equipped with 41 markers from the cmu graphics lab motion capture database (n.d.). the observation is a curve in \mathbb{R}^{123} recorded 5 **visualization of group inference data in functional ...** - visualization of group inference data in functional neuroimaging . jan gläscher the analysis of functional neuroimaging data in spm proceeds in 2 stages: at the first level, ... thus allowing for population inference. early functional neuroimaging in the 1990s **some recent developments in inference for geostatistical ...** - the objective of this paper is to review some recent developments in inference for geostatistical functional data. we thus consider data which are a collection of curves at spatial locations f_s kg. each $t \times (s \times k; t)$ is a curve. for example, the f_s kg can be locations of meteorological stations, and $x(s$ **calibration for simultaneity: (re)sampling methods for ...** - calibration for simultaneity: (re)sampling methods for simultaneous inference with applications to function estimation and functional data andreas buja 1 and wolfgang rolke 2 we survey and illustrate a monte carlo technique for carrying out simple simultaneous

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