

nonparametric functional data analysis pdf

Preface This work is the fruit of recent advances concerning both nonparametric statistical modelling and functional variables and is based on various publica-

Nonparametric Functional Data Analysis

Recent advances in nonparametric functional data analysis allow to define the notion of mode for a sample of curves. A kernel-type estimator is proposed for estimating this modal curve.

(PDF) Nonparametric Functional Data Analysis: Theory and

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.

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1.5 Scope of the Book Once the general framework for nonparametric modelling of functional variable is given (see Part I), the book focuses on various statistical topics: predicting from a functional variable (see Part II), classifying a sample of functional data (see Part III) and statistics for dependent functional variables (see Part IV).

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Several functional datasets in chemometrics, econometrics, and pattern recognition are used to emphasize the wide scope of nonparametric functional data analysis in applied sciences. The companion Web site includes R and S-PLUS routines, command lines for reproducing examples presented in the book, and the functional datasets.

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Abstract Functional Data Analysis (FDA) is a modern branch of Statistics dealing with infinite-dimensional data such as functions, curves, surfaces, or images.

Nonparametric techniques for Functional Data Analysis

1 NONPARAMETRIC FUNCTIONAL DATA ANALYSIS THROUGH BAYESIAN DENSITY ESTIMATION
ABEL RODRÍGUEZ, DAVID B. DUNSON, AND ALAN E. GELFAND ABSTRACT ...

NONPARAMETRIC FUNCTIONAL DATA ANALYSIS THROUGH BAYESIAN

Nonparametric Functional Data Analysis Yoan Miche CIS, HUT March 27, 2007 ... Functional Statistics
(Non)Parametric Models Definition Let X be a random vector valued in \mathbb{R}^p and let $\hat{\mu}$ be a function defined on \mathbb{R}^p and depending on the distribution of X . A model

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