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**Nonparametric
Functional Data
Analysis**

Theory and Practice

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Frédéric Ferraty, Yves Romain



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[The Oxford Handbook of Functional Data Analysis](#) Frédéric Ferraty, Yves Romain, 2010-11-25 This Handbook aims to present a state of the art exploration of the high tech field of functional data analysis by gathering together most of major advances in this area

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Functional Data Analysis, 1997 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 meteorology 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 Approach* is Professor of Statistics at Bristol University His published work on smoothing methods and other aspects of applied computational and theoretical statistics has been recognized by the Presidents Award of the Committee of Presidents of Statistical Societies and the award of two Guy Medals by the Royal Statistical Society

Applied Functional Data Analysis J.O. Ramsay, B.W. Silverman, 2007-11-23 This book contains the ideas of functional data analysis by a number of case studies The case studies are accessible to research workers in a wide range of disciplines Every reader should gain not only a specific understanding of the methods of functional data analysis but more importantly a general insight into the underlying patterns of thought There is an associated web site with MATLAB and S PLUS implementations of the methods discussed

Theoretical Foundations of Functional Data Analysis, with an Introduction to Linear Operators Tailen Hsing, Randall Eubank, 2015-05-06 *Theoretical Foundations of Functional Data Analysis with an Introduction to Linear Operators* provides a uniquely broad compendium of the key

mathematical concepts and results that are relevant for the theoretical development of functional data analysis FDA The self contained treatment of selected topics of functional analysis and operator theory includes reproducing kernel Hilbert spaces singular value decomposition of compact operators on Hilbert spaces and perturbation theory for both self adjoint and non self adjoint operators The probabilistic foundation for FDA is described from the perspective of random elements in Hilbert spaces as well as from the viewpoint of continuous time stochastic processes Nonparametric estimation approaches including kernel and regularized smoothing are also introduced These tools are then used to investigate the properties of estimators for the mean element covariance operators principal components regression function and canonical correlations A general treatment of canonical correlations in Hilbert spaces naturally leads to FDA formulations of factor analysis regression MANOVA and discriminant analysis This book will provide a valuable reference for statisticians and other researchers interested in developing or understanding the mathematical aspects of FDA It is also suitable for a graduate level special topics course

New Techniques for Functional Data Analysis Matthew Rogers Avery, 2012

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 linear models with functional responses ill conditioned functional linear models diagnostics of functional observations heteroscedastic ANOVA for functional data and testing equality of covariance functions Although the methodologies presented are designed for curve data they can be extended to surface data Useful for statistical researchers and practitioners analyzing functional data this self contained book gives both a theoretical and applied treatment of functional data analysis supported by easy to use MATLAB code The author provides a number of simple methods for functional hypothesis testing He discusses pointwise L2 norm based F type and bootstrap tests Assuming only basic knowledge of statistics calculus and matrix algebra the book explains the key ideas at a relatively low technical level using real data examples Each chapter also includes bibliographical notes and exercises Real functional data sets from the text and MATLAB codes for analyzing the data examples are available for download from the author s website

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