



Introduction to Modern Nonparametric Statistics

James J. Higgins

Introduction To Modern Nonparametric Statistics

RM Cervero



Introduction To Modern Nonparametric Statistics:

An Introduction to Modern Nonparametric Statistics James J. Higgins, 2004 Guided by problems that frequently arise in actual practice James Higgins book presents a wide array of nonparametric methods of data analysis that researchers will find useful It discusses a variety of nonparametric methods and wherever possible stresses the connection between methods For instance rank tests are introduced as special cases of permutation tests applied to ranks The author provides coverage of topics not often found in nonparametric textbooks including procedures for multivariate data multiple regression multi factor analysis of variance survival data and curve smoothing This truly modern approach teaches non majors how to analyze and interpret data with nonparametric procedures using today s computing technology **Studyguide for**

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the first edition This book would be especially good for the shelf of anyone who already knows nonparametrics but wants a reference for how to apply those techniques in R The American Statistician This thoroughly updated and expanded second edition of Nonparametric Statistical Methods Using R covers traditional nonparametric methods and rank based analyses Two new chapters covering multivariate analyses and big data have been added Core classical nonparametrics chapters on one and two sample problems have been expanded to include discussions on ties as well as power and sample size determination Common machine learning topics including k nearest neighbors and trees have also been included in this new edition Key Features Covers a wide range of models including location linear regression ANOVA type mixed models for cluster correlated data nonlinear and GEE type Includes robust methods for linear model analyses big data time to event analyses timeseries and multivariate Numerous examples illustrate the methods and their computation R packages are available for computation and datasets Contains two completely new chapters on big data and multivariate analysis The book is suitable for advanced undergraduate and graduate students in statistics and data science and students of other majors with a solid background in statistical methods including regression and ANOVA It will also be of use to researchers working with nonparametric and rank based methods in practice **Applied Nonparametric Statistical Methods** Nigel

Smeeton, Neil Spencer, Peter Sprent, 2025-03-31 Nonparametric statistical methods minimize the number of assumptions that need to be made about the distribution of data being analysed unlike classical parametric methods As such they are an essential part of a statistician's armoury and this book is an essential resource in their application Starting from the basics of statistics it takes the reader through the main nonparametric approaches with an emphasis on carefully explained examples backed up by use of the R programming language Key features of this fully revised and extended fifth edition include the following An introductory chapter that provides a gentle introduction to the basics of statistics including types of data hypothesis testing confidence intervals and ethical issues An R package containing functions that have been written for the examples in the text and the exercises Summary bullet points at the end of each section to enable the reader to locate important principles quickly A case study from medical research to demonstrate nonparametric approaches to the data analysis Examples fully integrated into the text drawn from published research on contemporary issues with more detail given in their explanation Extensive exercises along with complete solutions that allow the reader to test their understanding of the material Articles used in the examples and exercises carefully chosen to enable readers to identify up to date literature in their field for research publications and teaching material Numerous historical references throughout the text from which to explore the origins of nonparametric methods Applied Nonparametric Statistical Methods Fifth Edition is a comprehensive course text in nonparametric techniques suitable for undergraduate students of mathematics and statistics It assumes only basic previous experience of statistics and with algebra kept to a minimum it is also ideal for quantitative methods modules delivered to undergraduate or postgraduate students in science business and health service training It is an invaluable

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