

Statistical Computing With R Rizzo

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in biostatistical research and courses practitioners and students often lack a thorough understanding of how to apply statistical methods to synthesize biomedical and clinical trial data filling this knowledge gap applied meta analysis with r shows how to implement statistical meta analysis methods to real data using r drawing on their extensive research and teaching experiences the authors provide detailed step by step explanations of the implementation of meta analysis methods using r each chapter gives examples of real studies compiled from the literature after presenting the data and necessary background for understanding the applications various methods for analyzing meta data are introduced the authors then develop analysis code using the appropriate r packages and functions this systematic approach helps readers thoroughly understand the analysis methods and r implementation enabling them to use r and the methods to analyze their own meta data suitable as a graduate level text for a meta data analysis course the book is also a valuable reference for practitioners and biostatisticians even those with little or no experience in using r in public health medical research governmental agencies and the pharmaceutical industry

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too often in biostatistical research and clinical trials a knowledge gap exists between developed statistical methods and the applications of these methods filling this gap clinical trial data analysis using r provides a thorough presentation of biostatistical analyses of clinical trial data and shows step by step how to implement the statistical methods using r the book s practical detailed approach draws on the authors 30 years of real world experience in biostatistical research and clinical development each chapter presents examples of clinical trials based on the authors actual experiences in clinical drug development various biostatistical methods for analyzing the data are then identified the authors develop analysis code step by step using appropriate r packages and functions this approach enables readers to gain an understanding of the analysis methods and r implementation so that they can use r to analyze their own clinical trial data with step by step illustrations of r implementations this book shows how to easily use r to simulate and analyze data from a clinical trial it describes numerous up to date statistical methods and offers sound guidance on the processes involved in clinical trials

review of the first edition the goal of this book as stated by the authors is to fill the knowledge gap that exists between developed statistical methods and the applications of these methods overall this book achieves the goal successfully and does a nice job i would highly recommend it the example based approach is easy to follow and makes the book a very helpful desktop reference for many biostatistics methods journal of statistical software clinical trial data analysis using r and sas

second edition provides a thorough presentation of biostatistical analyses of clinical trial data with step by step implementations using r and sas the book s practical detailed approach draws on the authors 30 years experience in biostatistical research and clinical development the authors develop step by step analysis code using appropriate r packages and functions and sas procs which enables readers to gain an understanding of the analysis methods and r and sas implementation so that they can use these two popular software packages to analyze their own clinical trial data what s new in the second edition adds sas programs along with the r programs for clinical trial data analysis updates all the statistical analysis with updated r packages includes correlated data analysis with multivariate analysis of variance applies r and sas to clinical trial data from hypertension duodenal ulcer beta blockers familial adenomatous polyposis and breast cancer trials covers the biostatistical aspects of various clinical trials including treatment comparisons time to event endpoints longitudinal clinical trials and bioequivalence trials

review of the first edition the authors strive to reduce theory to a minimum which makes it a self learning text that is comprehensible for biologists physicians etc who lack an advanced mathematics background unlike in many other textbooks r is not introduced with meaningless toy examples instead the reader is taken by the hand and shown around some analyses graphics and simulations directly relating to meta analysis a useful hands on guide for practitioners who want to familiarize themselves with the fundamentals of meta analysis and get started without having to plough through theorems and proofs journal of applied statistics statistical meta analysis with r and stata second edition provides a thorough presentation of statistical meta analyses ma with step by step implementations using r stata the authors develop analysis step by step using appropriate r stata functions which enables readers to gain an understanding of meta analysis methods and r stata implementation so that they can use these two popular software packages to analyze their own meta data each chapter gives examples of real studies compiled from the literature after presenting the data and necessary background for understanding the applications various methods for analyzing meta data are introduced the authors then develop analysis code using the appropriate r stata packages and functions what s new in the second edition adds stata programs along with the r programs for meta analysis updates all the statistical meta analyses with r stata programs covers fixed effects and random effects ma meta regression ma with rare event and ma ipd vs ma ss adds five new chapters on multivariate ma publication bias missing

data in machine learning in evaluating diagnostic accuracy and network machine learning suitable as a graduate level text for a meta data analysis course the book is also a valuable reference for practitioners and biostatisticians even those with little or no experience in using R or Stata in public health medical research governmental agencies and the pharmaceutical industry

R by example is an example based introduction to the statistical computing environment that does not assume any previous familiarity with R or other software packages R functions are presented in the context of interesting applications with real data the purpose of this book is to illustrate a range of statistical and probability computations using R for people who are learning teaching or using statistics specifically this book is written for users who have covered at least the equivalent of or are currently studying undergraduate level calculus based courses in statistics these users are learning or applying exploratory and inferential methods for analyzing data and this book is intended to be a useful resource for learning how to implement these procedures in R

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