mathematics

Applied and Computational Statistics

Edited by
Sorana D. Bolboacă

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Applied And Computational Statistics

Sorana D. Bolboac?

Applied And Computational Statistics:

Applied and Computational Statistics Keith D. C. Stoodley,1984   **Applied and Computational Statistics** Sorana D. Bolboac?,2020 Research without statistics is like water in the sand the latter is necessary to reap the benefits of the former This collection of articles is designed to bring together different approaches to applied statistics The studies presented in this book are a tiny piece of what applied statistics means and how statistical methods find their usefulness in different fields of research from theoretical frames to practical applications such as genetics computational chemistry and experimental design This book presents several applications of the statistics A new continuous distribution with five parameters the modified beta Gompertz distribution A method to calculate the p value associated with the Anderson Darling statistic An approach of repeated measurement designs A validated model to predict statement mutations score A new family of structural descriptors called the extending characteristic polynomial EChP family used to express the link between the structure of a compound and its properties This collection brings together authors from Europe and Asia with a specific contribution to the knowledge in regards to theoretical and applied statistics   Applied and Computational Statistics Keith D. C. Stoodley,1984

Computational Statistics Yadolah Dodge,Joe Whittaker,2013-11-11 The Role of the Computer in Statistics David Cox Nuffield College Oxford OXIINF U K A classification of statistical problems via their computational demands hinges on four components I the amount and complexity of the data il the specificity of the objectives of the analysis iii the broad aspects of the approach to analysis ill the conceptual mathematical and numerical analytic complexity of the methods Computational requi rements may be limiting in I and ill either through the need for special programming effort or because of the difficulties of initial data management or because of the load of detailed analysis The implications of modern computational developments for statistical work can be illustrated in the context of the study of specific probabilistic models the development of general statistical theory the design of investigations and the analysis of empirical data While simulation is usually likely to be the most sensible way of investigating specific complex stochastic models computerized algebra has an obvious role in the more analyti cal work It seems likely that statistics and applied probability have made insufficient use of developments in numerical analysis associated more with classical applied mathematics in particular in the solution of large systems of ordinary and partial differential equations integral equations and integra differential equations and for the raction of useful in formation from integral transforms Increasing emphasis on models incorporating specific subject matter considerations is one route to bridging the gap between statistical ana   **Applied Computational Statistics in Longitudinal Research** Michael J. Rovine,Alexander von Eye,1991 A book designed to assist the user to actually run and interpret the results of many innovative analytic strategies such as those discussed in Statistical methods in Longitudinal Research The book helps the user to quickly and easily apply the material to the computer   **Computational Statistics Handbook with MATLAB** Wendy L. Martinez,Angel R. Martinez,2015-12-16 A Strong Practical Focus on Applications and

AlgorithmsComputational Statistics Handbook with MATLAB Third Edition covers today s most commonly used techniques in computational statistics while maintaining the same philosophy and writing style of the bestselling previous editions The text keeps theoretical concepts to a minimum emphasizing the i *Applied Computational Statistics in Longitudinal Research* Michael J. Rovine,Alexander von Eye,1990 *Computational Statistics* ,2010-04-29 Computational inference is based on an approach to statistical methods that uses modern computational power to simulate distributional properties of estimators and test statistics This book describes computationally intensive statistical methods in a unified presentation emphasizing techniques such as the PDF decomposition that arise in a wide range of methods Computational Statistics and Mathematical Modeling Methods in Intelligent Systems Radek Silhavy,Petr Silhavy,Zdenka Prokopova,2019-09-19 This book presents real world problems and exploratory research in computational statistics mathematical modeling artificial intelligence and software engineering in the context of the intelligent systems This book constitutes the refereed proceedings of the 3rd Computational Methods in Systems and Software 2019 CoMeSySo 2019 a groundbreaking online conference that provides an international forum for discussing the latest high quality research results **Data Analytics, Computational Statistics, and Operations Research for Engineers** Debabrata Samanta,SK Hafizul Islam,Naveen Chilamkurti,Mohammad Hammoudeh,2022-03-24 With the rapidly advancing fields of Data Analytics and Computational Statistics it s important to keep up with current trends methodologies and applications This book investigates the role of data mining in computational statistics for machine learning It offers applications that can be used in various domains and examines the role of transformation functions in optimizing problem statements Data Analytics Computational Statistics and Operations Research for Engineers Methodologies and Applications presents applications of computationally intensive methods inference techniques and survival analysis models It discusses how data mining extracts information and how machine learning improves the computational model based on the new information Those interested in this reference work will include students professionals and researchers working in the areas of data mining computational statistics operations research and machine learning **Methodological and Applied Statistics and Demography II** Alessio Pollice,Paolo Mariani,2025-03-02 This book of peer reviewed short papers on methodological and applied statistics and demography is the second of four volumes from the 52nd Scientific Meeting of the Italian Statistical Society SIS 2024 held in Bari Italy on June 17 20 2024 It features invited contributions presented in the Solicited Sessions The volumes address a large number of topics and applications of current interest The topics covered include but are not limited to statistical theory and methods sampling theory Bayesian statistics statistical modeling computational statistics classification data analysis gender statistics and applied statistics The applications reflect new analyses in a wide variety of fields including demography psychometrics education business economics finance law and other social sciences and humanities epidemiology the life and health sciences as well as the environmental and natural sciences and engineering This variety also demonstrates the important role of

statistical science in addressing the societal and environmental challenges of sustainable development One of the aims of the Italian Statistical Society SIS is to promote scientific activities for the development of statistical sciences Its biennial international Scientific Meeting represents the Society s largest event which brings together national and international researchers and professionals to exchange ideas and discuss recent advances and developments in theoretical and applied statistics **Applied Computational Mathematics in Social Sciences** Romulus-Catalin Damaceanu,2010 Applied Computational Mathematics in Social Sciences adopts a modern scientific approach that combines knowledge from mathematical modeling with various aspects of social science Special algorithms can be created to simulate an artificial society and a detailed analysis can subsequently be used to project social realities This Ebook specifically deals with computations using the NetLogo platform and is intended for researchers interested in advanced human geography and mathematical modeling studies **Computational Statistics** James E. Gentle,2009-07-28 Computational inference has taken its place alongside asymptotic inference and exact techniques in the standard collection of statistical methods Computational inference is based on an approach to statistical methods that uses modern computational power to simulate distributional properties of estimators and test statistics This book describes computationally intensive statistical methods in a unified presentation emphasizing techniques such as the PDF decomposition that arise in a wide range of methods The book assumes an intermediate background in mathematics computing and applied and theoretical statistics The first part of the book consisting of a single long chapter reviews this background material while introducing computationally intensive exploratory data analysis and computational inference The six chapters in the second part of the book are on statistical computing This part describes arithmetic in digital computers and how the nature of digital computations affects algorithms used in statistical methods Building on the first chapters on numerical computations and algorithm design the following chapters cover the main areas of statistical numerical analysis that is approximation of functions numerical quadrature numerical linear algebra solution of nonlinear equations optimization and random number generation The third and fourth parts of the book cover methods of computational statistics including Monte Carlo methods randomization and cross validation the bootstrap probability density estimation and statistical learning The book includes a large number of exercises with some solutions provided in an appendix Computational Mathematics and Applied Statistics Sandra Ferreira,2023-05-24 Rapid advances in modelling research have created new challenges and opportunities for statisticians Statistical inference in observational studies and many other emerging fields have motivated statisticians worldwide to develop cutting edge methods and analytical strategies The aim of this book is to showcase the applications and methodological research in all fields of computational statistics This book will provide a forum for computer scientists mathematicians and statisticians working in a variety of areas in statistics including biometrics econometrics data analysis graphics and simulation *Applied Univariate, Bivariate, and Multivariate Statistics Using Python* Daniel J.

Denis,2021-05-11 Applied Univariate Bivariate and Multivariate Statistics Using Python A practical how to reference for anyone performing essential statistical analyses and data management tasks in Python Applied Univariate Bivariate and Multivariate Statistics Using Python delivers a comprehensive introduction to a wide range of statistical methods performed using Python in a single one stop reference The book contains user friendly guidance and instructions on using Python to run a variety of statistical procedures without getting bogged down in unnecessary theory Throughout the author emphasizes a set of computational tools used in the discovery of empirical patterns as well as several popular statistical analyses and data management tasks that can be immediately applied Most of the datasets used in the book are small enough to be easily entered into Python manually though they can also be downloaded for free from www datapsyc com Only minimal knowledge of statistics is assumed making the book perfect for those seeking an easily accessible toolkit for statistical analysis with Python Applied Univariate Bivariate and Multivariate Statistics Using Python represents the fastest way to learn how to analyze data with Python Readers will also benefit from the inclusion of A review of essential statistical principles including types of data measurement significance tests significance levels and type I and type II errors An introduction to Python exploring how to communicate with Python A treatment of exploratory data analysis basic statistics and visual displays including frequencies and descriptives q q plots box and whisker plots and data management An introduction to topics such as ANOVA MANOVA and discriminant analysis regression principal components analysis factor analysis cluster analysis among others exploring the nature of what these techniques can vs cannot do on a methodological level Perfect for undergraduate and graduate students in the social behavioral and natural sciences Applied Univariate Bivariate and Multivariate Statistics Using Python will also earn a place in the libraries of researchers and data analysts seeking a quick go to resource for univariate bivariate and multivariate analysis in Python **Computational Mathematics and Applied Statistics** Sandra Ferreira,2023 Rapid advances in modelling research have created new challenges and opportunities for statisticians Statistical inference in observational studies and many other emerging fields have motivated statisticians worldwide to develop cutting edge methods and analytical strategies The aim of this reprint is to showcase the applications and methodological research in all fields of computational statistics This reprint will provide a forum for computer scientists mathematicians and statisticians working in a variety of areas in statistics including biometrics econometrics data analysis graphics and simulation **Applied & Computational Statistics** Machine L,2025-05-29 Machine Learning Nonparametrics and Big Data *Applied Statistics Algorithms* Paul Griffiths,Ian David Hill,1985 **Computational Statistics** Peter Dirschedl (ed),Rüdiger Ostermann,1994-11-25 This book is a collection of thirty invited papers covering the important parts of a rapidly developing area like computational statistics All contributions supply information about a specialized topic in a tutorial and comprehensive style Newest results and developments are discussed Starting with the foundations of computational statistics i e numerical reliability of software packages or construction principles for

pseudorandom number generators the volume includes design considerations on statistical programming languages and the basic issues of resampling techniques Also covered are areas like design of experiments graphical techniques modelling and testing problems a review of clustering algorithms and concise discussions of regression trees or cognitive aspects of authoring systems **Journal of the Japanese Society of Computational Statistics** ,2003

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