

Elements of Computational Statistics

James E. Gentle

Springer

Computational Statistics Statistics And Computing

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Computational Statistics Statistics And Computing:

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 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 [Elements of Computational Statistics](#)

James E. Gentle, 2002-08-12 Will provide a more elementary introduction to these topics than other books available Gentle is the author of two other Springer books

Elements of Statistical Computing R. A. Thisted, 2017-10-19 Statistics and computing share many close relationships Computing now permeates every aspect of statistics from pure description to the development of statistical theory At the same time the computational methods used in statistical work span much of computer science Elements of Statistical Computing covers the broad usage of computing in statistics It provides a comprehensive account of the most important computational statistics Included are discussions of numerical analysis numerical integration and smoothing The author give special attention to floating point standards and numerical analysis iterative methods for both linear and nonlinear equation such as Gauss Seidel method and successive over relaxation and computational methods for missing data such as the EM algorithm Also covered are new areas of interest such as the Kalman filter projection pursuit methods density estimation and other computer intensive techniques *Basic Elements of*

Computational Statistics Wolfgang Karl Härdle, Ostap Okhrin, Yarema Okhrin, 2017-09-29 This textbook on computational

statistics presents tools and concepts of univariate and multivariate statistical data analysis with a strong focus on applications and implementations in the statistical software R. It covers mathematical statistical as well as programming problems in computational statistics and contains a wide variety of practical examples. In addition to the numerous R snippets presented in the text, all computer programs, quantlets and data sets to the book are available on GitHub and referred to in the book. This enables the reader to fully reproduce as well as modify and adjust all examples to their needs. The book is intended for advanced undergraduate and first year graduate students as well as for data analysts new to the job who would like a tour of the various statistical tools in a data analysis workshop. The experienced reader with a good knowledge of statistics and programming might skip some sections on univariate models and enjoy the various mathematical roots of multivariate techniques. The Quantlet platform (quantlet.de, quantlet.com, quantlet.org) is an integrated QuantNet environment consisting of different types of statistics related documents and program codes. Its goal is to promote reproducibility and offer a platform for sharing validated knowledge native to the social web. QuantNet and the corresponding Data Driven Documents based visualization allows readers to reproduce the tables, pictures and calculations inside this Springer book.

COMPSTAT 2006 - Proceedings in Computational Statistics Alfredo Rizzi, Maurizio Vichi, 2007-12-03 International Association for Statistical Computing. The International Association for Statistical Computing (IASC) is a Section of the International Statistical Institute. The objectives of the Association are to foster world wide interest in effective statistical computing and to change technical knowledge through international contacts and meetings between statisticians, computing professionals, organizations, institutions, governments and the general public. The IASC organises its own Conferences: IASC World Conferences and COMPSTAT in Europe. The 17th Conference of ERS-IASC, the biennial meeting of the European Section of the IASC, was held in Rome August 28-September 1, 2006. This conference took place in Rome exactly 20 years after the 7th COMPSTAT symposium which was held in Rome in 1986. Previous COMPSTAT conferences were held in Vienna, Austria (1974), West Berlin, Germany (1976), Leiden, The Netherlands (1978), Edinburgh, UK (1980), Toulouse, France (1982), Prague, Czechoslovakia (1984), Rome, Italy (1986), Copenhagen, Denmark (1988), Dubrovnik, Yugoslavia (1990), Neuchâtel, Switzerland (1992), Vienna, Austria (1994), Barcelona, Spain (1996), Bristol, UK (1998), Utrecht, The Netherlands (2000), Berlin, Germany (2002), Prague, Czech Republic (2004). Computational Statistics Yadolah Dodge, Joe Whittaker, 2012-12-06. The papers assembled in this book were presented at the biannual symposium of the International Association for Statistical Computing in Neuchâtel, Switzerland, in August of 1992. This congress marked the tenth such meeting from its inception in 1974 at Vienna and maintained the tradition of providing a forum for the open discussion of progress made in computer oriented statistics and the dissemination of new ideas throughout the statistical community. It was gratifying to see how well the groups of theoretical statisticians, software developers and applied research workers were represented whose mixing is an event made uniquely possible by this symposium. While maintaining traditions, certain new features have been introduced at this con-

ference there were a larger number of invited speakers there was more commercial sponsorship and exhibition space and a larger body of proceedings have been published The structure of the proceedings follows a standard format the papers have been grouped together according to a rough subject matter classification and within topic follow an approximate alphabetical order The papers are published in two volumes according to the emphasis of the topics volume I gives a slight leaning towards statistics and modelling while volume II is focussed more on computation but this is certainly only a crude distinction and the volumes have to be thought of as the result of a single enterprise

Handbook of Computational Statistics Yuichi Mori, 2004-07-14 The Handbook of Computational Statistics Concepts and Methodology is divided into four parts It begins with an overview over the field of Computational Statistics The second part presents several topics in the supporting field of statistical computing Emphasis is placed on the need of fast and accurate numerical algorithms and it discusses some of the basic methodologies for transformation data base handling and graphics treatment The third part focuses on statistical methodology Special attention is given to smoothing iterative procedures simulation and visualization of multivariate data Finally a set of selected applications like Bioinformatics Medical Imaging Finance and Network Intrusion Detection highlight the usefulness of computational statistics

Computational Statistics Geof H. Givens, Jennifer A. Hoeting, 2012-11-06 This new edition continues to serve as a comprehensive guide to modern and classical methods of statistical computing The book is comprised of four main parts spanning the field Optimization Integration and Simulation Bootstrapping Density Estimation and Smoothing Within these sections each chapter includes a comprehensive introduction and step by step implementation summaries to accompany the explanations of key methods The new edition includes updated coverage and existing topics as well as new topics such as adaptive MCMC and bootstrapping for correlated data The book website now includes comprehensive R code for the entire book There are extensive exercises real examples and helpful insights about how to use the methods in practice

Computational Statistics in Data Science Walter W. Piegorsch, Richard A. Levine, Hao Helen Zhang, Thomas C. M. Lee, 2022-03-23 Ein unverzichtbarer Leitfaden bei der Anwendung computergestützter Statistik in der modernen Datenwissenschaft In Computational Statistics in Data Science präsentiert ein Team aus bekannten Mathematikern und Statistikern eine fundierte Zusammenstellung von Konzepten Theorien Techniken und Praktiken der computergestützten Statistik für ein Publikum das auf der Suche nach einem einzigen umfassenden Referenzwerk für Statistik in der modernen Datenwissenschaft ist Das Buch enthält etliche Kapitel zu den wesentlichen konkreten Bereichen der computergestützten Statistik in denen modernste Techniken zeitgemäß und verständlich dargestellt werden Darüber hinaus bietet Computational Statistics in Data Science einen kostenlosen Zugang zu den fertigen Eingängen im Online Nachschlagewerk Wiley StatsRef Statistics Reference Online Außerdem erhalten die Leserinnen und Leser eine gründliche Einführung in die computergestützte Statistik mit relevanten und verständlichen Informationen für Anwender und Forscher in verschiedenen datenintensiven Bereichen Umfassende Erläuterungen zu aktuellen Themen in der Statistik darunter Big Data Datenstromverarbeitung

quantitative Visualisierung und Deep Learning Das Werk eignet sich perfekt für Forscher und Wissenschaftler sämtlicher Fachbereiche die Techniken der computergestützten Statistik auf einem gehobenen oder fortgeschrittenen Niveau anwenden müssen Zudem gehört Computational Statistics in Data Science in das Bücherregal von Wissenschaftlern die sich mit der Erforschung und Entwicklung von Techniken der computergestützten Statistik und statistischen Grafiken beschäftigen

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