

Elements of Computational Statistics

James E. Gentle

Springer

Computational Statistics Statistics And Computing

Yuichi Mori



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

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

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 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.

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 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 Bereichsregal von Wissenschaftlern die sich mit der Erforschung und Entwicklung von Techniken der computergestützten Statistik und statistischen Grafiken beschäftigen.

Handbook of Computational Statistics James E. Gentle, Wolfgang Karl Härdle, Yuichi Mori, 2017-05-04. The Handbook of Computational Statistics Concepts and Methods second edition is a revision of the first edition published in 2004 and contains additional comments and updated information on the existing chapters as well as three new chapters addressing recent work in the field of computational statistics. This new edition is divided into 4 parts in the same way as the first edition. It begins with How Computational Statistics became the backbone of modern data science. Ch 1 an overview of the field of Computational Statistics how it emerged as a separate discipline and how its own development mirrored that of hardware and software including a discussion of current active research. The second part Chs 2-15 presents several topics in the supporting field of statistical computing. Emphasis is placed on the need for fast and accurate numerical algorithms and some of the basic methodologies for transformation database handling high dimensional data and graphics treatment are discussed. The third part Chs 16-33 focuses on statistical methodology. Special attention is given to smoothing iterative procedures simulation and visualization of multivariate data. Lastly a set of selected applications Chs 34-38 like Bioinformatics Medical Imaging Finance Econometrics and Network Intrusion Detection highlight the usefulness of computational statistics in real world applications.

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 European regional 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 COMP STAT 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 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 Yadolah Dodge, Joe Whittaker, 2012-12-06 The papers assembled in this book were presented at the biannual symposium of 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 conference 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

Applications in Statistical Computing Nadja Bauer, Katja Ickstadt, Karsten Lübke, Gero Szepannek, Heike Trautmann, Maurizio Vichi, 2019-10-12 This volume presents a selection of research papers on various topics at the interface of statistics and computer science Emphasis is put on the practical applications of statistical methods in various disciplines using machine learning and other computational methods The book covers fields of research including the design of experiments computational statistics music data analysis statistical process control biometrics industrial engineering and econometrics Gathering innovative high quality and scientifically relevant contributions the volume was published in honor of Claus Weihs Professor of Computational Statistics at TU Dortmund University on the occasion of his 66th birthday

COMPSTAT 2008 Paula Brito, 2008-08-11 18th Symposium Held in Porto Portugal 2008

Computer Intensive Methods in Statistics Silvelyn Zwanzig, Behrang Mahjani, 2019-11-27 This textbook gives an overview of statistical methods that have been developed during the last years due to increasing computer use including random number generators Monte Carlo methods Markov Chain Monte Carlo MCMC methods Bootstrap EM algorithms SIMEX variable selection density estimators kernel estimators orthogonal and local polynomial estimators wavelet estimators splines and model assessment Computer Intensive Methods in Statistics is written for students at graduate level but can also be used by practitioners Features Presents the main ideas of computer intensive statistical methods Gives the

algorithms for all the methods Uses various plots and illustrations for explaining the main ideas Features the theoretical backgrounds of the main methods Includes R codes for the methods and examples

Silvelyn Zwanzig is an Associate Professor for Mathematical Statistics at Uppsala University She studied Mathematics at the Humboldt University in Berlin Before coming to Sweden she was Assistant Professor at the University of Hamburg in Germany She received her Ph D in Mathematics at the Academy of Sciences of the GDR Since 1991 she has taught Statistics for undergraduate and graduate students Her research interests have moved from theoretical statistics to computer intensive statistics

Behrang Mahjani is a postdoctoral fellow with a Ph D in Scientific Computing with a focus on Computational Statistics from Uppsala University Sweden He joined the Seaver Autism Center for Research and Treatment at the Icahn School of Medicine at Mount Sinai New York in September 2017 and was formerly a postdoctoral fellow at the Karolinska Institutet Stockholm Sweden His research is focused on solving large scale problems through statistical and computational methods

COMPSTAT Jelke G. Bethlehem, Peter G.M. van der Heijden, 2012-12-06 This Volume contains the Keynote Invited and Full Contributed papers presented at COMPSTAT 2000 A companion volume Jansen Bethlehem 2000 contains papers describing the Short Communications and Posters COMPSTAT is a one week conference held every two years under the auspices of the International Association of Statistical Computing a section of the International Statistical Institute COMPSTAT 2000 is jointly organised by the Department of Methodology and Statistics of the Faculty of Social Sciences of Utrecht University and Statistics Netherlands It is taking place from 21-25 August 2000 at Utrecht University Previous COMPSTATs from 1974-1998 were in Vienna Berlin Leiden Edinburgh Toulouse Prague Rome Copenhagen Dubrovnik Neuchatel Vienna Barcelona and Bristol The conference is the main European forum for developments at the interface between statistics and computing This was encapsulated as follows on the COMPSTAT 2000 homepage <http://neon.vb.cbs.nl/rsm1/compstat/> Statistical computing provides the link between statistical theory and applied statistics As at previous COMPSTATs the scientific programme will range over all aspects of this link from the development and implementation of new statistical ideas through to user experiences and software evaluation The programme should appeal to anyone working in statistics and using computers whether in universities industrial companies research institutes or as software developers At COMPSTAT 2000 there is a special interest in the interplay with official statistics This is evident from papers in the area of computerised data collection survey methodology treatment of missing data and the like

Computational Statistics Günther Sawitzki, 2009-01-26 Suitable for a compact course or self study Computational Statistics An Introduction to R illustrates how to use the freely available R software package for data analysis statistical programming and graphics Integrating R code and examples throughout the text only requires basic knowledge of statistics and computing This introduction covers one sample analysis and distribution diagnostics regression two sample problems and comparison of distributions and multivariate analysis It uses a range of examples to demonstrate how R can be employed to tackle statistical problems In addition the handy

appendix includes a collection of R language elements and functions serving as a quick reference and starting point to access the rich information that comes bundled with R Accessible to a broad audience this book explores key topics in data analysis regression statistical distributions and multivariate statistics Full of examples and with a color insert it helps readers become familiar with R Numerical Analysis for Statisticians Kenneth Lange,1999 Numerical analysis is the study of computation and its accuracy stability and often its implementation on a computer This book focuses on the principles of numerical analysis and is intended to equip those readers who use statistics to craft their own software and to understand the advantages and disadvantages of different numerical methods **Computational Statistics** Yadolah Dodge,Joe Whittaker,2013-11-11 The Role of the Computer in Statistics David Cox Nuffield College Oxford OX1 1NF 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 **Statistical Computing with R** Maria L. Rizzo,2007-11-15 Computational statistics and statistical computing are two areas that employ computational graphical and numerical approaches to solve statistical problems making the versatile R language an ideal computing environment for these fields One of the first books on these topics to feature R Statistical Computing with R covers the traditiona **Computational Statistics with R** ,2014-11-27 R is open source statistical computing software Since the R core group was formed in 1997 R has been extended by a very large number of packages with extensive documentation along with examples freely available on the internet It offers a large number of statistical and numerical methods and graphical tools and visualization of extraordinarily high quality R was recently ranked in 14th place by the Transparent Language Popularity Index and 6th as a scripting language after PHP Python and Perl The book is designed so that it can be used right away by novices while appealing to experienced users as well Each article begins with a data example that can be downloaded directly from the R website Data analysis questions are articulated

following the presentation of the data The necessary R commands are spelled out and executed and the output is presented and discussed Other examples of data sets with a different flavor and different set of commands but following the theme of the article are presented as well Each chapter presents a hands on experience R has superb graphical outputs and the book brings out the essentials in this arena The end user can benefit immensely by applying the graphics to enhance research findings The core statistical methodologies such as regression survival analysis and discrete data are all covered Addresses data examples that can be downloaded directly from the R website No other source is needed to gain practical experience Focus on the essentials in graphical outputs

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