

Statistics and Computing

Andreas Krause
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The Basics of S and S-PLUS

Second Edition



Springer

The Basics Of S Plus Statistics And Computing

Andreas Krause, Melvin Olson



The Basics Of S Plus Statistics And Computing:

The Basics of S and S-PLUS Andreas Krause, Melvin Olson, 2000 S PLUS is a powerful tool for interactive data analysis the creation of graphs and the implementation of customized routines Originating as the S Language of AT T Bell Laboratories its modern language and flexibility make it appealing to data analysts from many scientific fields This book explains the basics of S PLUS in a clear style at a level suitable for people with little computing or statistical knowledge Unlike the S PLUS manuals it is not comprehensive but instead introduces the most important ideas of S PLUS through the use of many examples Each chapter also includes a collection of exercises that are accompanied by fully worked out solutions and detailed comments The volume is rounded off with practical hints on how efficient work can be performed in S PLUS The book is well suited for self study and as a textbook For the second edition the text has been updated to incorporate the completely revised S Language and its implementation in S PLUS New chapters have been added to explain how to work with the graphical user interface of the Windows version how to explore relationships in data using the powerful Trellis graphics system and how to understand and use object oriented programming In addition the programming chapter has been extended to cover some of the more technical but important aspects of S PLUS

S Programming William Venables, B.D. Ripley, 2013-03-09 S is a high level language for manipulating analysing and displaying data It forms the basis of two highly acclaimed and widely used data analysis software systems the commercial S PLUS and the Open Source R This book provides an in depth guide to writing software in the S language under either or both of those systems It is intended for readers who have some acquaintance with the S language and want to know how to use it more effectively for example to build re usable tools for streamlining routine data analysis or to implement new statistical methods One of the outstanding strengths of the S language is the ease with which it can be extended by users S is a functional language and functions written by users are first class objects treated in the same way as functions provided by the system S code is eminently readable and so a good way to document precisely what algorithms were used and as much of the implementations are themselves written in S they can be studied as models and to understand their subtleties The current implementations also provide easy ways for S functions to call compiled code written in C Fortran and similar languages this is documented here in depth Increasingly S is being used for statistical or graphical analysis within larger software systems or for whole vertical market applications The interface facilities are most developed on Windows and these are covered with worked examples The authors have written the widely used Modern Applied Statistics with S PLUS now in its third edition and several software libraries that enhance S PLUS and R these and the examples used in both books are available on the Internet Dr W N Venables is a senior Statistician with the CSIRO CMIS Environmetrics Project in Australia having been at the Department of Statistics University of Adelaide for many years previously Professor B D Ripley holds the Chair of Applied Statistics at the University of Oxford and is the author of four other books on spatial statistics simulation pattern recognition and neural networks Both authors are known

and respected throughout the international S and R communities for their books workshops short courses freely available software and through their extensive contributions to the S news and R mailing lists **S+SpatialStats** S. P.

Kaluzny,1998-03-24 S SPATIALSTATS is the first comprehensive object oriented package for the analysis of spatial data Providing a whole new set of analysis tools S SPATIALSTATS was created specifically for the exploration and modeling of spatially correlated data It can be used to analyze data arising in areas such as environmental mining and petroleum engineering natural resources geography epidemiology demography and others where data is sampled spatially This users manual provides the documentation for the S SPATIALSTATS module **Modern Applied Statistics with S** W.N.

Venables,B.D. Ripley,2013-03-09 S is a powerful environment for the statistical and graphical analysis of data It provides the tools to implement many statistical ideas that have been made possible by the widespread availability of workstations having good graphics and computational capabilities This book is a guide to using S environments to perform statistical analyses and provides both an introduction to the use of S and a course in modern statistical methods Implementations of S are available commercially in S PLUS R workstations and as the Open Source R for a wide range of computer systems The aim of this book is to show how to use S as a powerful and graphical data analysis system Readers are assumed to have a basic grounding in statistics and so the book is intended for would be users of S PLUS or R and both students and researchers using statistics Throughout the emphasis is on presenting practical problems and full analyses of real data sets Many of the methods discussed are state of the art approaches to topics such as linear nonlinear and smooth regression models tree based methods multivariate analysis pattern recognition survival analysis time series and spatial statistics Throughout modern techniques such as robust methods non parametric smoothing and bootstrapping are used where appropriate This fourth edition is intended for users of S PLUS 6 0 or R 1 5 0 or later A substantial change from the third edition is updating for the current versions of S PLUS and adding coverage of R The introductory material has been rewritten to emphasis the import export and manipulation of data Increased computational power allows even more computer intensive methods to be used and methods such as GLMMs The Basics of S-PLUS Andreas Krause,Melvin Olson,2007-11-24 In a clear style the most

important ideas of S PLUS are introduced through the use of many examples Each chapter includes a collection of exercises fully worked out solutions and detailed comments *Elements of Computational Statistics* James E. Gentle,2006-04-18 Will provide a more elementary introduction to these topics than other books available Gentle is the author of two other Springer books *Introduction to Computer-Intensive Methods of Data Analysis in Biology* Derek A. Roff,2006-05-25 Publisher

Description Numerical Linear Algebra for Applications in Statistics James E. Gentle,2012-12-06 Numerical linear algebra is one of the most important subjects in the field of statistical computing Statistical methods in many areas of application require computations with vectors and matrices This book describes accurate and efficient computer algorithms for factoring matrices solving linear systems of equations and extracting eigenvalues and eigenvectors Although the book is not tied to any

particular software system it describes and gives examples of the use of modern computer software for numerical linear algebra. An understanding of numerical linear algebra requires basic knowledge both of linear algebra and of how numerical data are stored and manipulated in the computer. The book begins with a discussion of the basics of numerical computations and then describes the relevant properties of matrix inverses, matrix factorizations, matrix and vector norms, and other topics in linear algebra; hence the book is essentially self-contained. The topics addressed in this book constitute the most important material for an introductory course in statistical computing and should be covered in every such course. The book includes exercises and can be used as a text for a first course in statistical computing or as supplementary text for various courses that emphasize computations. James Gentle is University Professor of Computational Statistics at George Mason University. During a thirteen year hiatus from academic work before joining George Mason, he was director of research and design at the world's largest independent producer of Fortran and C general purpose scientific software libraries. These libraries implement many algorithms for numerical linear algebra. He is a Fellow of the American Statistical Association and member of the International Statistical Institute. He has held several national

Random Number Generation and Monte Carlo Methods James E. Gentle, 2013-03-14 The role of Monte Carlo methods and simulation in all of the sciences has increased in importance during the past several years. These methods are at the heart of the rapidly developing subdisciplines of computational physics, computational chemistry, and the other computational sciences. The growing power of computers and the evolving simulation methodology have led to the recognition of computation as a third approach for advancing the natural sciences together with theory and traditional experimentation. Monte Carlo is also a fundamental tool of computational statistics. At the kernel of a Monte Carlo or simulation method is random number generation. Generation of random numbers is also at the heart of many standard statistical methods. The random sampling required in most analyses is usually done by the computer. The computations required in Bayesian analysis have become viable because of Monte Carlo methods. This has led to much wider applications of Bayesian statistics which in turn has led to development of new Monte Carlo methods and to refinement of existing procedures for random number generation.

Branch-and-Bound Applications in Combinatorial Data Analysis Michael J. Brusco, Stephanie Stahl, 2005-07-22 There are a variety of combinatorial optimization problems that are relevant to the examination of statistical data. Combinatorial problems arise in the clustering of a collection of objects, the seriation, sequencing or ordering of objects, and the selection of variables for subsequent multivariate statistical analysis such as regression. The options for choosing a solution strategy in combinatorial data analysis can be overwhelming. Because some problems are too large or intractable for an optimal solution strategy, many researchers develop an over-reliance on heuristic methods to solve all combinatorial problems. However, with increasingly accessible computer power and ever improving methodologies, optimal solution strategies have gained popularity for their ability to reduce unnecessary uncertainty. In this monograph, optimality is attained for nontrivially sized problems via the branch and

bound paradigm For many combinatorial problems branch and bound approaches have been proposed and or developed However until now there has not been a single resource in statistical data analysis to summarize and illustrate available methods for applying the branch and bound process This monograph provides clear explanatory text illustrative mathematics and algorithms demonstrations of the iterative process psuedocode and well developed examples for applications of the branch and bound paradigm to important problems in combinatorial data analysis Supplementary material such as computer programs are provided on the world wide web Dr Brusco is a Professor of Marketing and Operations Research at Florida State University an editorial board member for the Journal of Classification and a member of the Board of Directors for the Classification Society of North America Stephanie Stahl is an author and researcher with years of experience in writing editing and quantitative psychology research

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