

Elements of Statistical Computing

NUMERICAL COMPUTATION

Ronald A. Thisted



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Elements Of Statistical Computing

Emilie Sanchez



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The Elements of Statistical Learning Trevor Hastie, Robert Tibshirani, Jerome Friedman, 2013-11-11 During the past decade there has been an explosion in computation and information technology. With it have come vast amounts of data in a variety of fields such as medicine, biology, finance, and marketing. The challenge of understanding these data has led to the development of new tools in the field of statistics and spawned new areas such as data mining, machine learning, and bioinformatics. Many of these tools have common underpinnings but are often expressed with different terminology. This book describes the important ideas in these areas in a common conceptual framework. While the approach is statistical, the emphasis is on concepts rather than mathematics. Many examples are given with a liberal use of color graphics. It is a valuable resource for statisticians and anyone interested in data mining in science or industry. The book's coverage is broad, from supervised learning (prediction) to unsupervised learning. The many topics include neural networks, support vector machines, classification trees, and boosting—the first comprehensive treatment of this topic in any book. This major new edition features many topics not covered in the original, including graphical models, random forests,

ensemble methods least angle regression path algorithms for the lasso non negative matrix factorization and spectral clustering There is also a chapter on methods for wide data p bigger than n including multiple testing and false discovery rates

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 The Elements of Statistical Learning Trevor Hastie, Robert Tibshirani, Jerome H. Friedman, 2009

Statistical Computing William J. Kennedy, James E. Gentle, 2021-06-23 In this book the authors have assembled the best techniques from a great variety of sources establishing a benchmark for the field of statistical computing Mathematics of Computation The text is highly readable and well illustrated with examples The reader who intends to take a hand in designing his own regression and multivariate packages will find a storehouse of information and a valuable resource in the field of statistical computing

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

Statistical Computing Kennedy, 1980-03-01 This book provides an introduction to statistical computing and a critical balanced presentation of the algorithms and computational methods used in software systems discussing techniques for implementing algorithms in a computer It is intended for graduate students in statistics

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way and makes its readers proficient in using MATLAB for computing. It mainly focuses on the applications of MATLAB rather than its use in programming basic numerical algorithms. Commencing with the introduction to MATLAB, the text covers vector and matrix computations, solution of linear and non-linear equations, differentiation and integration, and solution of ordinary and partial differential equations. Next, analytical computations using the Symbolic Math Toolbox and statistical computations using the Statistics and Machine Learning Toolbox are explained. Finally, the book describes various curve fitting techniques using the Curve Fitting Toolbox. Inclusion of all these advanced level topics in the book stands it out from the rest.

KEY FEATURES Numerous worked out examples to enable the readers understand the steps involved in solving the chemical engineering problems. MATLAB codes to explain the computational techniques. Several snapshots to help the readers understand the step by step procedures of using the toolboxes. Chapter end exercises including short answer questions and numerical problems. Appendix comprising the definitions of some important and special matrices. Supplemented with Solutions Manual containing complete detailed solutions to the unsolved analytical problems. Accessibility of selected colour figures including screenshots and results outputs of the programs cited in the text at www.phindia.com.

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graphical models random forests ensemble methods least angle regression and path algorithms for the lasso non negative matrix factorization and spectral clustering There is also a chapter on methods for wide data p bigger than n including multiple testing and false discovery rates Trevor Hastie Robert Tibshirani and Jerome Friedman are professors of statistics at Stanford University They are prominent researchers in this area Hastie and Tibshirani developed generalized additive models and wrote a popular book of that title Hastie co developed much of the statistical modeling software and environment in R S PLUS and invented principal curves and surfaces Tibshirani proposed the lasso and is co author of the very successful An Introduction to the Bootstrap Friedman is the co inventor of many data mining tools including CART MARS projection pursuit and gradient boosting

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Computing and Graphics in Statistics ANDREAS BUJA, Paul A. Tukey, 1991-10-22 This IMA Volume in Mathematics and its Applications COMPUTING AND GRAPHICS IN STATISTICS is based on the proceedings of the last two weeks of the six week IMA 1989 summer program Robustness Diagnostics Computing and Graphics in Statistics An important objective of the organizers was to draw a broad set of statisticians working in statistical computation into collaboration on the challenging problems in this rapidly developing area We thank the organizers of the robustness and diagnostics program Werner Stuetzle Luke Tierney Edward Wegman Allan R Wilks and especially Andreas Buja and Paul A Tukey who edited the proceedings We also take this opportunity to thank those agencies whose financial support made the summer program possible the Air Force Office of Scientific Research the Army Research Office the National Science Foundation the National Security Agency and the Office of Naval Research A vner Friedman Willard Miller Jr PREFACE This volume covers the computational part of IMA activities in statistics during the summer of 1989 The areas of statistical computing and graphics encompass a broad range of research much of it represented here The vigor of this research is probably best demonstrated by the fact that as of this writing two new journals are being launched both entirely dedicated to these areas

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Publications of the National Bureau of Standards United States. National Bureau of Standards, 1983

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