

Introducing R

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The purpose of these notes is to provide a quick introduction to R, particularly as a tool for fitting linear and generalized linear models. The notes originated in a 1992 handout introducing S-Plus, but have been substantially rewritten to target R using R Studio. Each of the subjects discussed here includes a sample application. Additional examples will be found in the R logs of my GML course, as well as in the pages for courses on Multilevel Models, Survival Analysis and Demographic Methods, all at <https://data.princeton.edu>.

1 Introduction

R is a powerful environment for statistical computing which runs on several platforms. These notes are written specially for users running the Windows version, but most of the material applies to the Mac and Linux versions as well.

1.1 The R Language and environment

R was first written as a research project by Ross Ihaka and Robert Gentleman, and is now under active development by a group of statisticians called ‘the R core team’, with a home page at <https://www.r-project.org>.

R was designed to be ‘not unlike’ the S language developed by John Chambers and others at Bell Labs. A commercial version of S with additional features was developed and marketed as S-Plus by Statistical Sciences, eventually becoming part of TIBCO Spotfire. You can view R and S-Plus as alternative implementations of the same underlying S language. The modern R implementation, however, is by far the most popular.

R is available free of charge and is distributed under the terms of the Free Software Foundation’s GNU General Public License. You can download the program from the Comprehensive R Archive Network (CRAN). Ready-to-run ‘binaries’ are available for Windows, Mac OS, and Linux. The source code is also available for download and can be compiled for other platforms.

These notes are organized in several sections, covering getting started, reading data, fitting linear models, and fitting generalized linear models. I close with a few pointers and references

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2D and 3D Image Analysis by Moments Jan Flusser, Tomas Suk, Barbara Zitova, 2016-12-19 Presents recent significant and rapid development in the field of 2D and 3D image analysis 2D and 3D Image Analysis by Moments is a unique compendium of moment based image analysis which includes traditional methods and also reflects the latest development of the field The book presents a survey of 2D and 3D moment invariants with respect to similarity and affine spatial transformations and to image blurring and smoothing by various filters The book comprehensively describes the mathematical background and theorems about the invariants but a large part is also devoted to practical usage of moments Applications from various fields of computer vision remote sensing medical imaging image retrieval watermarking and forensic analysis are demonstrated Attention is also paid to efficient algorithms of moment computation Key features Presents a systematic overview of moment based features used in 2D and 3D image analysis Demonstrates invariant properties of moments with respect to various spatial and intensity transformations Reviews and compares several orthogonal polynomials and respective moments Describes efficient numerical algorithms for moment computation It is a classroom ready textbook with a self contained introduction to classifier design The accompanying website contains around 300 lecture slides Matlab codes complete lists of the invariants test images and other supplementary material 2D and 3D Image Analysis by Moments is ideal for mathematicians computer scientists engineers software developers and Ph D students involved in image analysis and recognition Due to the addition of two introductory chapters on classifier design the book may also serve as a self contained textbook for graduate university courses on object recognition

Bodies of Constant Width Horst Martini, Luis Montejano, Déborah Oliveros, 2019-03-16 This is the first comprehensive monograph to thoroughly investigate constant width bodies which is a classic area of interest within convex geometry It examines bodies of constant width from several points of view and in doing so shows surprising connections between various areas of mathematics Concise explanations and detailed proofs demonstrate the many interesting properties and applications of these bodies Numerous instructive diagrams are provided throughout to illustrate these concepts An introduction to convexity theory is first provided and the basic properties of constant width bodies are then presented The book then delves into a number of related topics which include Constant width bodies in convexity sections and projections complete and reduced sets mixed volumes and further partial fields Sets of constant width in non Euclidean geometries in real Banach spaces and in hyperbolic spherical and further non Euclidean spaces The concept of constant width in analysis using Fourier series spherical integration and other related methods Sets of constant width in differential geometry using systems of lines and discussing notions like curvature evolutes etc Bodies of constant width in topology hyperspaces transnormal manifolds fiber bundles and related topics The notion of constant width in discrete geometry referring to geometric inequalities packings and coverings etc Technical applications such as film projectors the square hole drill and rotary engines Bodies of Constant Width An Introduction to Convex Geometry with

Applications will be a valuable resource for graduate and advanced undergraduate students studying convex geometry and related fields. Additionally, it will appeal to any mathematicians with a general interest in geometry.

Operations Research Proceedings 2016 Andreas Fink, Armin Fügenschuh, Martin Josef Geiger, 2017-07-20. This book includes a selection of refereed papers presented at the Annual International Conference of the German Operations Research Society OR2016 which took place at the Helmut Schmidt University of the Bundeswehr Hamburg, Germany, Aug 30 - Sept 2, 2016. Over 700 practitioners and academics from mathematics, computer science, business, economics, and related fields attended the conference. The scientific program included around 475 presentations on the theme Analytical Decision Making, focusing on the process of researching complex decision problems and devising effective solution methods towards better decisions. The book presents papers discussing classical mathematical optimization, statistics, and simulation techniques. Such approaches are complemented by computer science methods and tools for the processing of data and the design and implementation of information systems. The book also examines recent advances in information technology which allow big data volumes to be treated and enable real-time predictive and prescriptive business analytics to drive decisions and actions. Further, it includes problems modeled and treated under consideration of uncertainty, risk management, behavioral issues, and strategic decision situations.

Digital Sociologies Jessie Daniels, Karen Gregory, Tressie McMillan Cottom, 2017. This handbook offers a much needed overview of the rapidly growing field of digital sociology. Rooted in a critical understanding of inequality as foundational to digital sociology, it connects digital media technologies to traditional areas of study in sociology such as labor, culture, education, race, class, and gender. It covers a wide variety of topics including web analytics, wearable technologies, social media analysis, and digital labor. The result is a benchmark volume that places the digital squarely at the forefront of contemporary investigations of the social.

University of California Union Catalog of Monographs Cataloged by the Nine Campuses from 1963 Through 1967: Authors & titles University of California (System). Institute of Library Research, University of California, Berkeley, 1972.

Even Convexity and Optimization María D. Fajardo, Miguel A. Goberna, Margarita M.L. Rodríguez, José Vicente-Pérez, 2020-10-27. This tutorial is the first comprehensive introduction to possibly infinite linear systems containing strict inequalities and evenly convex sets. The book introduces their application to convex optimization. Particular attention is paid to evenly convex polyhedra and finite linear systems containing strict inequalities. The book also analyzes evenly convex and quasiconvex functions from a conjugacy and duality perspective. It discusses the applications of these functions in economics. Written in an expository style, the main concepts and basic results are illustrated with suitable examples and figures.

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