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Titolo	Lisp-Stat [[electronic resource]] : an object-oriented environment for statistical computing and dynamic graphics / / Luke Tierney
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Descrizione fisica	1 online resource (418 p.)
Collana	Wiley series in probability and mathematical statistics. Applied probability and statistics, , 0271-6232
Disciplina	519.502855369
Soggetti	Mathematical statistics - Data processing LISP (Computer program language) Object-oriented programming (Computer science)
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Livello bibliografico	Monografia
Note generali	"A Wiley Interscience publication."
Nota di bibliografia	Includes bibliographical references (p. 341-346) and index.
Nota di contenuto	LISP-STAT An Object-Oriented Environment for Statistical Computing and Dynamic Graphics; Contents; Preface; 1 Introduction; 1.1 Environments for Statisticd Computing; 1.2 The Lisp-Stat Environment; 1.2.1 Why Lisp?; 1.2.2 Using Lisp-stat; 1.2.3 Some Design and Portability Issues; 1.2.4 The Future of Lisp-Stat; 2 A Lisp-stat Tutorial; 2.1 The Lisp Interpreter; 2.2 Elementary Computations and Graphs; 2.2.1 One-Dimensional Summaries and Plots; 2.2.2 Two-Dimensional Plots; 2.2.3 Plotting Functions; 2.3 More on the Interpreter; 2.3.1 Saving Your Work; 2.3.2 A Command History Mechanism 2.3.3 Getting Help2.3.4 Listing and Undefining Variables; 2.3.5 Interrupting a Calculation; 2.4 Some Data-Handling Functions; 2.4.1 Generating Systematic Data; 2.4.2 Generating Random Data; 2 4.3 Forming Subsets and Deleting Cases; 2.4.4 Combining Several Lists; 2.4.5 Modifying Data; 2.4.6 Reading Data Files; 2.5 Dynamic Graphs; 2.5.1 Spinning Plots; 2.5.2 Scatterplot Matrices; 2.5.3 Interacting with Individual Plots; 2.5.4 Linked Plots; 2.5.5 Modifying a Scatterplot; 2.5.6 Dynamic Simulations; 2.6 Regression; 2.7 Defining Functions and

Methods; 2.7.1 Defining Functions
2.7.2 Functions as Arguments2.7.3 Graphical Animation Control; 2.7.4 Defining Methods; 2.8 More Models and Techniques; 2.8.1 Nonlinear Regression; 2.8.2 Maximization and Maximum Likelihood Estimation; 2.8.3 Approximate Bayesian Computations; 3 Programming in Lisp; 3.1 Writing Simple Functions; 3.2 Predicates and Logical Expressions; 3.3 Conditional Evaluation; 3.4 Iteration and Recursion; 3.5 Environments; 3.5.1 Some Terminology; 3.5.2 Local Variables; 3.5.3 Local Functions; 3.6 Functions and Expressions as Data; 3.6.1 Anonymous Functions; 3.6.2 Using Function Arguments
3.6.3 Returning Functions as Resillts3.6.4 Expressions as Data; 3.7 Mapping; 3.8 Assignment and Destructive Modification; 3.9 Equality; 3.10 Some Examples; 3.10.1 Newton's Method for Finding Roots; 3.10.2 Symbolic Differentiation; 4 Additional Lisp Features; 4.1 Input/Output; 4.1.1 The Lisp Reader; 4.1.2 Basic Printing Functions; 4.1.3 Format; 4.1.4 Files and Streams; 4.2 Defining More Flexible Functions; 4.2.1 Keyword Arguments; 4.2.2 Optional Arguments; 4.2.3 Variable Number of Arguments; 4.3 Control Structure; 4.3.1 Conditionai Evaluation; 4.3.2 Looping; 4.4 Basic Lisp Data and Functions
4.4.1 Numbers4.4.2 Strings and Characters; 4.4.3 Symbols; 4.4.4 Lists; 4.4.5 Vectors; 4.4.6 Sequences; 4.4.7 Arrays; 4.4.8 Other Data Types; 4.5 Odds and Ends; 4.5.1 Errors; 4.5.2 Code-Writing Support; 4.5.3 Debugging Tools; 4.5.4 Timing; 4.5.5 Defsetf; 4.5.6 Special Variables; 5 Statistical Functions; 5.1 Compound Data; 5.1.1 Compound Data Properties; 5.1.2 Vectorized Arithmetic; 5.2 Data-Handling Functions; 5.2.1 Basic Operations; 5.2.2 Sorting Functions; 5.2.3 Interpolation and Smoothing; 5.3 Probability Distributions; 5.4 Array and Linear Algebra Functions
5.4.1 Basic Matrix and Array Functions

Sommario/riassunto

Written for the professional statistician or graduate statistics student, the primary objective of this book is to describe a system, based on the LISP language, for statistical computing and dynamic graphics to show how it can be used as an effective platform for a wide range of statistical computing tasks ranging from basic calculations to customizing dynamic graphs. In addition, it introduces object-oriented programming and graphics programming in a statistical context. The discussion of these ideas is based on the Lisp-Stat system; readers with access to such a system can reproduce the exa

2. Record Nr. UNINA9910284439503321

Titolo	Building on Progress : Expanding the Research Infrastructure for the Social, Economic, and Behavioral Sciences – Recommendations of the German Data Forum (RatSWD) / / German Data Forum
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ISBN	3-940755-86-9
Edizione	[1st ed.]
Descrizione fisica	1 online resource (55)
Collana	1d529e7a-227f-41df-9e75-8fcd52f8e5a4
Soggetti	research infrastructure economic sciences social sciences
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	This publication provides a comprehensive compendium of the current state of Germany’s research infrastructure in the social, economic, and behavioural sciences. In addition, the book presents detailed discussions of the current needs of empirical researchers in these fields as well as of opportunities for future development.