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# Mastering Scientific Computing with R

Employ professional quantitative methods to answer scientific questions with a powerful open source data analysis environment

Paul Gerrard  
Radia M. Johnson

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# Mastering Scientific Computing With R

**Marcel A. Müller**



## **Mastering Scientific Computing With R:**

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through a series of core tasks Every task is explained in detail with the help of practical examples

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explained thoroughly     Machine Learning with R Cookbook AshishSingh Bhatia,Yu-Wei, Chiu (David Chiu),2017-10-23 Explore over 110 recipes to analyze data and build predictive models with simple and easy to use R code About This Book Apply R to simplify predictive modeling with short and simple code Use machine learning to solve problems ranging from small to big data Build a training and testing dataset applying different classification methods Who This Book Is For This book is for data science professionals data analysts or people who have used R for data analysis and machine learning who now wish to become the go to person for machine learning with R Those who wish to improve the efficiency of their machine learning models and need to work with different kinds of data set will find this book very insightful What You Will Learn Create and inspect transaction datasets and perform association analysis with the Apriori algorithm Visualize patterns and associations using a range of graphs and find frequent item sets using the Eclat algorithm Compare differences between each regression method to discover how they solve problems Detect and impute missing values in air quality data Predict possible churn users with the classification approach Plot the autocorrelation function with time series analysis Use the Cox proportional hazards model for survival analysis Implement the clustering method to segment customer data Compress images with the dimension reduction method Incorporate R and Hadoop to solve machine learning problems on big data In Detail Big data has become a popular buzzword across many industries An increasing number of people have been exposed to the term and are looking at how to leverage big data in their own businesses to improve sales and profitability However collecting aggregating and visualizing data is just one part of the equation Being able to extract useful information from data is another task and a much more challenging one Machine Learning with R Cookbook Second Edition uses a practical approach to teach you how to perform machine learning with R Each chapter is divided into several simple recipes Through the step by step instructions provided in each recipe you will be able to construct a predictive model by using a variety of machine learning packages In this book you will first learn to set up the R environment and use simple R commands to explore data The next topic covers how to perform statistical analysis with machine learning analysis and assess created models covered in detail later on in the book You ll also learn how to integrate R and Hadoop to create a big data analysis platform The detailed illustrations provide all the information required to start applying machine learning to individual projects With Machine Learning with R Cookbook machine learning has never been easier Style and approach This is an easy to follow guide packed with hands on examples of machine learning tasks Each topic includes step by step instructions on tackling difficulties faced when applying R to machine learning     Bioinformatics and Computational Biology Basant K. Tiwary,2021-11-23 This textbook introduces fundamental concepts of bioinformatics and computational biology to the students and researchers in biology medicine veterinary science agriculture and bioengineering The respective chapters provide detailed information on biological databases sequence alignment molecular evolution next generation sequencing systems biology and statistical computing using R The book also presents a case based discussion on clinical veterinary

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*Interfacing and Scientific Computing on Personal Computers* J. N. Demas, Susan E. Demas, 1990

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Finite Dimensional Solution Space Semilinear Motion Planning Among Moving Objects in REDLOG Author Index *Journal of Engineering Education* ,2001      **Deep Learning and Scientific Computing with R torch** Sigrid Keydana,2023-04-05  
 torch is an R port of PyTorch one of the two most employed deep learning frameworks in industry and research It is also an excellent tool to use in scientific computations It is written entirely in R and C C Though still young as a project R torch already has a vibrant community of users and developers Experience shows that torch users come from a broad range of different backgrounds This book aims to be useful to almost everyone Globally speaking its purposes are threefold Provide a thorough introduction to torch basics both by carefully explaining underlying concepts and ideas and showing enough examples for the reader to become fluent in torch Again with a focus on conceptual explanation show how to use torch in deep learning applications ranging from image recognition over time series prediction to audio classification Provide a concepts first reader friendly introduction to selected scientific computation topics namely matrix computations the Discrete Fourier Transform and wavelets all accompanied by torch code you can play with Deep Learning and Scientific Computing with R torch is written with first hand technical expertise and in an engaging fun to read way      **The Combined Book Exhibit** American Library Association,1983      **Books in Series, 1876-1949** R.R. Bowker Company,1982      **Whitaker's Book List** ,1991      **Distributed Applications and Interoperable Systems** ,2005      *Subject Guide to Books in Print* ,1993      **Engineering Problem Solving with ANSI C** D. M. Etter,1996 This work features a wide variety of real world applications of usable C code to solve problems in electrical computer mechanical civil and environmental engineering as well as the computer sciences It provides state of the art ANSI C programs showing top down design and stepwise refinement with the use of decomposition outlines and pseudocode The book features practical real world engineering and scientific examples and discusses numerical techniques that are commonly used in solving engineering problems The accompanying disk contains all the example programs and data files presented in the book      *Scientific American* ,1907  
**Dr. Dobb's Journal** ,1998-07

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