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# Mastering Scientific Computing with R

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Paul Gerrard  
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# Mastering Scientific Computing With R

**Paul Gerrard, Radia M. Johnson**



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

**Mastering Scientific Computing with R** Paul Gerrard,Radia M. Johnson,2015-01-31 If you want to learn how to quantitatively answer scientific questions for practical purposes using the powerful R language and the open source R tool ecosystem this book is ideal for you It is ideally suited for scientists who understand scientific concepts know a little R and want to be able to start applying R to be able to answer empirical scientific questions Some R exposure is helpful but not compulsory

**Mastering Scientific Computing with R** Paul Gerrard,2015-01-31 About This Book Perform publication quality science using R Use some of R s most powerful and least known features to solve complex scientific computing problems Learn how to create visual illustrations of scientific results Who This Book Is For If you want to learn how to quantitatively answer scientific questions for practical purposes using the powerful R language and the open source R tool ecosystem this book is ideal for you It is ideally suited for scientists who understand scientific concepts know a little R and want to be able to start applying R to be able to answer empirical scientific questions Some R exposure is helpful but not compulsory

**Mastering R for Quantitative Finance** Edina Berlinger,Ferenc Illés,Milán Badics,Ádám Banai,Gergely Daróczi,Barbara Dömötör,Gergely Gabler,Dániel Havran,Péter Juhász,István Margitai,Balázs Márkus,Péter Medvegyev,Julia Molnár,Balázs Árpád Szűcs,Ágnes Tuza,Tamás Vadász,Kata Váradi,Ágnes Vidovics-Dancs,2015-03-10 This book is intended for those who want to learn how to use R s capabilities to build models in quantitative finance at a more advanced level If you wish to perfectly take up the rhythm of the chapters you need to be at an intermediate level in quantitative finance and you also need to have a reasonable knowledge of R

*Mastering Data Analysis with R* Gergely Daroczi,2015-09-30 Gain sharp insights into your data and solve real world data science problems with R from data munging to modeling and visualization About This Book Handle your data with precision and care for optimal business intelligence Restructure and transform your data to inform decision making Packed with practical advice and tips to help you get to grips with data mining Who This Book Is For If you are a data scientist or R developer who wants to explore and optimize your use of R s advanced features and tools this is the book for you A basic knowledge of R is required along with an understanding of database logic What You Will Learn Connect to and load data from R s range of powerful databases Successfully fetch and parse structured and unstructured data Transform and restructure your data with efficient R packages Define and build complex statistical models with glm Develop and train machine learning algorithms Visualize social networks and graph data Deploy supervised and unsupervised classification algorithms Discover how to visualize spatial data with R In Detail R is an essential language for sharp and successful data analysis Its numerous features and ease of use make it a powerful way of mining managing and interpreting large sets of data In a world where understanding big data has become key by mastering R you will be able to deal with your data effectively and efficiently This book will give you the guidance you need to build and develop your knowledge and expertise Bridging the gap between theory and practice this book will help you to understand and use data

for a competitive advantage Beginning with taking you through essential data mining and management tasks such as munging fetching cleaning and restructuring the book then explores different model designs and the core components of effective analysis You will then discover how to optimize your use of machine learning algorithms for classification and recommendation systems beside the traditional and more recent statistical methods Style and approach Covering the essential tasks and skills within data science Mastering Data Analysis provides you with solutions to the challenges of data science Each section gives you a theoretical overview before demonstrating how to put the theory to work with real world use cases and hands on examples

Mastering Numerical Computing with NumPy Umit Mert Cakmak,Mert Cuhadaroglu,2018-06-28 Enhance the power of NumPy and start boosting your scientific computing capabilities Key Features Grasp all aspects of numerical computing and understand NumPy Explore examples to learn exploratory data analysis EDA regression and clustering Access NumPy libraries and use performance benchmarking to select the right tool Book Description NumPy is one of the most important scientific computing libraries available for Python Mastering Numerical Computing with NumPy teaches you how to achieve expert level competency to perform complex operations with in depth coverage of advanced concepts Beginning with NumPy s arrays and functions you will familiarize yourself with linear algebra concepts to perform vector and matrix math operations You will thoroughly understand and practice data processing exploratory data analysis EDA and predictive modeling You will then move on to working on practical examples which will teach you how to use NumPy statistics in order to explore US housing data and develop a predictive model using simple and multiple linear regression techniques Once you have got to grips with the basics you will explore unsupervised learning and clustering algorithms followed by understanding how to write better NumPy code while keeping advanced considerations in mind The book also demonstrates the use of different high performance numerical computing libraries and their relationship with NumPy You will study how to benchmark the performance of different configurations and choose the best for your system By the end of this book you will have become an expert in handling and performing complex data manipulations What you will learn Perform vector and matrix operations using NumPy Perform exploratory data analysis EDA on US housing data Develop a predictive model using simple and multiple linear regression Understand unsupervised learning and clustering algorithms with practical use cases Write better NumPy code and implement the algorithms from scratch Perform benchmark tests to choose the best configuration for your system Who this book is for Mastering Numerical Computing with NumPy is for you if you are a Python programmer data analyst data engineer or a data science enthusiast who wants to master the intricacies of NumPy and build solutions for your numeric and scientific computational problems You are expected to have familiarity with mathematics to get the most out of this book

**Mastering Python for Data Science** Samir Madhavan,2015-08-31 Explore the world of data science through Python and learn how to make sense of data About This Book Master data science methods using Python and its libraries Create data visualizations and mine for patterns Advanced

techniques for the four fundamentals of Data Science with Python data mining data analysis data visualization and machine learning Who This Book Is For If you are a Python developer who wants to master the world of data science then this book is for you Some knowledge of data science is assumed What You Will Learn Manage data and perform linear algebra in Python Derive inferences from the analysis by performing inferential statistics Solve data science problems in Python Create high end visualizations using Python Evaluate and apply the linear regression technique to estimate the relationships among variables Build recommendation engines with the various collaborative filtering algorithms Apply the ensemble methods to improve your predictions Work with big data technologies to handle data at scale In Detail Data science is a relatively new knowledge domain which is used by various organizations to make data driven decisions Data scientists have to wear various hats to work with data and to derive value from it The Python programming language beyond having conquered the scientific community in the last decade is now an indispensable tool for the data science practitioner and a must know tool for every aspiring data scientist Using Python will offer you a fast reliable cross platform and mature environment for data analysis machine learning and algorithmic problem solving This comprehensive guide helps you move beyond the hype and transcend the theory by providing you with a hands on advanced study of data science Beginning with the essentials of Python in data science you will learn to manage data and perform linear algebra in Python You will move on to deriving inferences from the analysis by performing inferential statistics and mining data to reveal hidden patterns and trends You will use the matplotlib library to create high end visualizations in Python and uncover the fundamentals of machine learning Next you will apply the linear regression technique and also learn to apply the logistic regression technique to your applications before creating recommendation engines with various collaborative filtering algorithms and improving your predictions by applying the ensemble methods Finally you will perform K means clustering along with an analysis of unstructured data with different text mining techniques and leveraging the power of Python in big data analytics Style and approach This book is an easy to follow comprehensive guide on data science using Python The topics covered in the book can all be used in real world scenarios

*Machine Learning with R* Brett Lantz, 2015-07-31 Updated and upgraded to the latest libraries and most modern thinking Machine Learning with R Second Edition provides you with a rigorous introduction to this essential skill of professional data science Without shying away from technical theory it is written to provide focused and practical knowledge to get you building algorithms and crunching your data with minimal previous experience With this book you ll discover all the analytical tools you need to gain insights from complex data and learn how to choose the correct algorithm for your specific needs Through full engagement with the sort of real world problems data wranglers face you ll learn to apply machine learning methods to deal with common tasks including classification prediction forecasting market analysis and clustering

Building a Recommendation System with R Suresh K. Gorakala, Michele Usuelli, 2015-09-29 Learn the art of building robust and powerful recommendation engines using R About This Book Learn to exploit various data mining techniques

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Mastering Scientific Computing with R Paul Gerrard,2015      *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 Learning Probabilistic Graphical Models in R David Bellot, 2016-04-29 Familiarize yourself with probabilistic graphical models through real world problems and illustrative code examples in R About This Book Predict and use a probabilistic graphical models PGM as an expert system Comprehend how your computer can learn Bayesian modeling to solve real world problems Know how to prepare data and feed the models by using the appropriate algorithms from the appropriate R package Who This Book Is For This book is for anyone who has to deal with lots of data and draw conclusions from it especially when the data is noisy or uncertain Data scientists machine learning enthusiasts engineers and those who curious about the latest advances in machine learning will find PGM interesting What You Will Learn Understand the concepts of PGM and which type of PGM to use for which problem Tune the model s parameters and explore new models automatically Understand the basic principles of Bayesian models from simple to advanced Transform the old linear regression model into a powerful probabilistic model Use standard industry models but with the power of PGM Understand the advanced models used throughout today s industry See how to compute posterior distribution with exact and approximate inference algorithms In Detail Probabilistic graphical models PGM also known as graphical models are a marriage between probability theory and graph theory Generally PGMs use a graph based representation Two branches of graphical representations of distributions are commonly used namely Bayesian networks and Markov networks R has many packages to implement graphical models We ll start by showing you how to transform a classical statistical model into a modern PGM and then look at how to do exact inference in graphical models Proceeding we ll introduce you to many modern R packages that will help you to perform inference on the models We will then run a Bayesian linear regression and you ll see the advantage of going probabilistic when you want to do prediction

Next you'll master using R packages and implementing its techniques. Finally, you'll be presented with machine learning applications that have a direct impact in many fields. Here we'll cover clustering and the discovery of hidden information in big data as well as two important methods, PCA and ICA, to reduce the size of big problems. Style and approach: This book gives you a detailed and step-by-step explanation of each mathematical concept which will help you build and analyze your own machine learning models and apply them to real-world problems. The mathematics is kept simple and each formula is explained thoroughly.

**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, agricultural, bioinformatics, and computational bioengineering for application-based learning in the respective fields. Further, it offers readers guidance on reconstructing and analysing biological networks and highlights computational methods used in systems medicine and genome-wide association mapping of diseases. Given its scope, this textbook offers an essential introductory book on bioinformatics and computational biology for undergraduate and graduate students in the life sciences, botany, zoology, physiology, biotechnology, bioinformatics, and genomic science, as well as systems biology, bioengineering, and the agricultural and veterinary sciences.

Forecasting Methods for Renewable Power Generation Jai Govind Singh, Rupendra Kumar Pachauri, Sasidharan Sreedharan, 2025-04-18. Forecasting Methods for Renewable Power Generation is an essential resource for both professionals and students, providing in-depth insights into vital forecasting techniques that enhance grid stability, optimize resource management, and enable effective electricity pricing strategies. It is a must-have reference for anyone involved in the clean energy sector. Forecasting techniques in renewable power generation, demand response, and electricity pricing are vital for grid stability, optimal resource allocation, efficient energy management, and cost-effective electricity supply. They enable grid operators and market participants to make informed decisions, mitigate risks, and enhance the overall reliability and sustainability of the electrical grid. Electricity prices can vary significantly based on supply and demand dynamics. By forecasting expected demand and the availability of generation resources, market operators can optimize electricity pricing strategies. This alignment of prices with anticipated supply-demand balance incentivizes the efficient use of electricity and promotes market efficiency. Accurate forecasting helps prevent price spikes, reduces market uncertainties, and supports the development of effective energy trading strategies. This book presents these topics and trends in an encyclopedic format, serving as a go-to reference for engineers, scientists, or students interested in the subject. The book is divided into three easy-to-navigate sections that thoroughly examine the AI and machine learning-based algorithms and pseudocode considered in this study. This is the most comprehensive and up-to-date encyclopedia of forecasting in renewable

power generation demand response and electricity pricing ever written and is a must have for any library      *Numerical Solution Of Ordinary And Partial Differential Equations, The (3rd Edition)* Granville Sewell, 2014-12-16 This book presents methods for the computational solution of differential equations both ordinary and partial time dependent and steady state Finite difference methods are introduced and analyzed in the first four chapters and finite element methods are studied in chapter five A very general purpose and widely used finite element program PDE2D which implements many of the methods studied in the earlier chapters is presented and documented in Appendix A The book contains the relevant theory and error analysis for most of the methods studied but also emphasizes the practical aspects involved in implementing the methods Students using this book will actually see and write programs FORTRAN or MATLAB for solving ordinary and partial differential equations using both finite differences and finite elements In addition they will be able to solve very difficult partial differential equations using the software PDE2D presented in Appendix A PDE2D solves very general steady state time dependent and eigenvalue PDE systems in 1D intervals general 2D regions and a wide range of simple 3D regions The Windows version of PDE2D comes free with every purchase of this book More information at [www.pde2d.com](http://www.pde2d.com) contact

**Electric Machines** Dionysios Aliprantis, Oleg Wasynczuk, 2022-08-11 Offering a new perspective this textbook demystifies the operation of electric machines by providing an integrated understanding of electromagnetic fields electric circuits numerical analysis and computer programming It presents fundamental concepts in a rigorous manner emphasising underlying physical modelling assumptions and limitations and provides detailed explanations of how to implement the finite element method to explore these concepts using Python It includes explanations of the conversion of concepts into algorithms and algorithms into code and examples building in complexity from simple linear motion electromagnets to rotating machines Over 100 theoretical and computational end of chapter exercises test understanding with solutions for instructors and downloadable Python code available online Ideal for graduates and senior undergraduates studying electric machines electric machine design and control and power electronic converters and power systems engineering this textbook is also a solid reference for engineers interested in understanding analysing and designing electric motors generators and transformers      **OCaml Scientific Computing** Liang Wang, Jianxin Zhao, Richard Mortier, 2022-05-26 This book is about the harmonious synthesis of functional programming and numerical computation It shows how the expressiveness of OCaml allows for fast and safe development of data science applications Step by step the authors build up to use cases drawn from many areas of Data Science Machine Learning and AI and then delve into how to deploy at scale using parallel distributed and accelerated frameworks to gain all the advantages of cloud computing environments To this end the book is divided into three parts each focusing on a different area Part I begins by introducing how basic numerical techniques are performed in OCaml including classical mathematical topics interpolation and quadrature statistics and linear algebra It moves on from using only scalar values to multi dimensional arrays introducing the tensor and Narray core data types in any numerical

computing system It concludes with two more classical numerical computing topics the solution of Ordinary Differential Equations ODEs and Signal Processing as well as introducing the visualization module we use throughout this book Part II is dedicated to advanced optimization techniques that are core to most current popular data science fields We do not focus only on applications but also on the basic building blocks starting with Algorithmic Differentiation the most crucial building block that in turn enables Deep Neural Networks We follow this with chapters on Optimization and Regression also used in building Deep Neural Networks We then introduce Deep Neural Networks as well as topic modelling in Natural Language Processing NLP two advanced and currently very active fields in both industry and academia Part III collects a range of case studies demonstrating how you can build a complete numerical application quickly from scratch using Owl The cases presented include computer vision and recommender systems This book aims at anyone with a basic knowledge of functional programming and a desire to explore the world of scientific computing whether to generally explore the field in the round to build applications for particular topics or to deep dive into how numerical systems are constructed It does not assume strict ordering in reading readers can simply jump to the topic that interests them most

*The Numerical Solution of Ordinary and Partial Differential Equations* Granville Sewell, 2005-07-25 Learn to write programs to solve ordinary and partial differential equations The Second Edition of this popular text provides an insightful introduction to the use of finite difference and finite element methods for the computational solution of ordinary and partial differential equations Readers gain a thorough understanding of the theory underlying the methods presented in the text The author emphasizes the practical steps involved in implementing the methods culminating in readers learning how to write programs using FORTRAN90 and MATLAB r to solve ordinary and partial differential equations The book begins with a review of direct methods for the solution of linear systems with an emphasis on the special features of the linear systems that arise when differential equations are solved The following four chapters introduce and analyze the more commonly used finite difference methods for solving a variety of problems including ordinary and partial differential equations and initial value and boundary value problems The techniques presented in these chapters with the aid of carefully developed exercises and numerical examples can be easily mastered by readers The final chapter of the text presents the basic theory underlying the finite element method Following the guidance offered in this chapter readers gain a solid understanding of the method and discover how to use it to solve many problems A special feature of the Second Edition is Appendix A which describes a finite element program PDE2D developed by the author Readers discover how PDE2D can be used to solve difficult partial differential equation problems including nonlinear time dependent and steady state systems and linear eigenvalue systems in 1D intervals general 2D regions and a wide range of simple 3D regions The software itself is available to instructors who adopt the text to share with their students

[Large-Scale Scientific Computing](#) Svetozar D. Margenov, Jerzy Wasniewski, Plamen Yalamov, 2003-06-30 This book constitutes the thoroughly refereed post proceedings of the Third

International Conference on Large Scale Scientific Computing LSSC 2001 held in Sozopol Bulgaria in June 2001 The 7 invited full papers and 45 selected revised papers were carefully reviewed for inclusion in the book The papers are organized in topical sections on robust preconditioning algorithms Monte Carlo methods advanced programming environments for scientific computing large scale computations in air pollution modeling large scale computations in mechanical engineering and numerical methods for incompressible flow

**Computer Algebra in Scientific Computing CASC 2001** Viktor G. Ganzha, Ernst W. Mayr, Evgenii V. Vorozhtsov, 2012-12-06 CASC 2001 continues a tradition started in 1998 of international conferences on the latest advances in the application of computer algebra systems to the solution of various problems in scientific computing The three earlier CASCs in this sequence CASC 98 CASC 99 and CASC 2000 were held in Petersburg Russia in Munich Germany and in Samarkand respectively in Uzbekistan and proved to be very successful We have to thank the program committee listed overleaf for a tremendous job in soliciting and providing reviews for the submitted papers There were more than three reviews per submission on average The result of this job is reflected in the present volume which contains revised versions of the accepted papers The collection of papers included in the proceedings covers various topics of computer algebra methods algorithms and software applied to scientific computing In particular five papers are devoted to the implementation of the analysis of involutive systems with the aid of CASs The specific examples include new efficient algorithms for the computation of Janet bases for monomial ideals involutive division involutive reduction method etc A number of papers deal with application of CASs for obtaining and validating new exact solutions to initial and boundary value problems for partial differential equations in mathematical physics Several papers show how CASs can be used to obtain analytic solutions of initial and boundary value problems for ordinary differential equations and for studying their properties

**Scientific Computing and Bioinformatics and Computational Biology** Douglas D. Hodson, Michael R. Grimaila, Hamid R. Arabnia, Leonidas Deligiannidis, Torrey J. Wagner, 2025-04-22 This book constitutes the proceedings of the 22nd International Conference on Scientific Computing and Bioinformatics CSC 2024 and the 25th International Conference on Computational Biology BIOCOMP 2024 held as part of the 2024 World Congress in Computer Science Computer Engineering and Applied Computing in Las Vegas USA during July 22 to July 25 2024 The proceedings include 25 papers from CSC 2024 which have been selected from a total of 128 submissions and 27 papers from BIOCOMP 2024 that have been selected from 27 submissions The papers have been organized in topical sections as follows Military and defence modeling and simulation scientific computing and applications and bioinformatics and computational biology

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