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2021-08-17

ARTHUR ALANA

Biology and Conservation of an Iconic Butterfly CRC Press

This book discusses advanced statistical methods that can be used to analyse ecological data. Most environmental collected data are measured repeatedly over time, or space and this requires the use of GLMM or GAMM methods. The book starts by revising regression, additive modelling, GAM and GLM, and then discusses dealing with spatial or temporal dependencies and nested data.

SAS and R John Wiley & Sons Why learn R? Because it's rapidly becoming the standard for developing statistical software. R in a Nutshell provides a quick and practical way to learn this increasingly popular open source language and environment. You'll not only learn how to program in R, but also how to find the right user-contributed R packages for statistical modeling, visualization, and bioinformatics. The author introduces you to the R environment, including the R graphical user interface and console, and takes you through the fundamentals of the object-oriented R language. Then, through a variety of practical examples from medicine, business, and sports, you'll learn how you can use this remarkable tool to solve your own data analysis problems. Understand the basics of the language, including the nature of R objects Learn how to write R functions and build your own packages Work with data through visualization, statistical analysis, and other methods Explore the wealth of packages contributed by the R community Become familiar with the lattice graphics package for high-level data visualization Learn about bioinformatics packages provided by Bioconductor "I am excited about this book. R in a Nutshell is a great introduction to R, as well as a comprehensive reference for using R in data analytics and visualization. Adler provides 'real world' examples, practical advice, and scripts, making it accessible to anyone working with data, not just professional statisticians." Mixed Effects Models and Extensions in Ecology with R CRC Press

Cohesively Incorporates Statistical Theory with R ImplementationSince the publication of the popular first edition of this comprehensive textbook, the contributed R packages on CRAN have increased from around 1,000 to over 6,000. Designed for an intermediate undergraduate course, Probability and Statistics with R, Second Edition explores how some o

Mastering Data Analysis with R John Wiley & Sons

Monarch butterflies are among the most popular insect species in the world and are an icon for conservation groups and environmental education programs. Monarch caterpillars and adults are easily recognizable as welcome visitors to gardens in North America and beyond, and their spectacular migration in eastern North America (from breeding locations in Canada and the United States to overwintering sites in Mexico) has captured the imagination of the public. Monarch migration, behavior, and chemical ecology have been studied for decades. Yet many aspects of monarch biology have come to light in only the past few years. These aspects include questions regarding large-scale trends in monarch population sizes, monarch interactions with pathogens and insect predators, and monarch molecular genetics and large-scale evolution. A growing number of current research findings build on the observations of citizen scientists, who monitor monarch migration, reproduction, survival, and disease. Monarchs face new threats from humans as they navigate a changing landscape marked by deforestation, pesticides, genetically modified crops, and a changing climate, all of which place the future of monarchs and their amazing migration in peril. To meet the demand for a timely synthesis of monarch biology, conservation and outreach, Monarchs in a Changing World summarizes recent developments in scientific research, highlights challenges and responses to threats to monarch conservation, and showcases the many ways that monarchs are used in citizen science programs, outreach, and education. It examines issues pertaining to the eastern and

western North American migratory populations, as well as to monarchs in South America, the Pacific and Caribbean Islands, and Europe. The target audience includes entomologists, population biologists, conservation policymakers, and K-12 teachers.

Modeling Techniques in Predictive

Analytics Lulu.com

Applied Econometrics with RSpringer

Science & Business Media

Templates for Extending Dozens of

Practical Examples Cambridge University

Press

Today, successful firms win by understanding their data more deeply than competitors do. In short, they compete based on analytics. Now, in Modeling Techniques in Predictive Analytics, the leader of Northwestern University's prestigious analytics program brings together all the concepts, techniques, and R code you need to excel in analytics. Thomas W. Miller's unique balanced approach combines business context and quantitative tools, appealing to managers, analysts, programmers, and students alike.--

Modeling Techniques in Predictive
Analytics with R and Python Elsevier
Learn How to Properly Analyze Categorical
DataAnalysis of Categorical Data with R
presents a modern account of categorical
data analysis using the popular R
software. It covers recent techniques of
model building and assessment for binary,
multicategory, and count response
variables and discusses fundamentals,
such as odds ratio and probability est

Time Series Analysis: Methods and **Applications** John Wiley & Sons R is open source statistical computing software. Since the R core group was formed in 1997, R has been extended by a very large number of packages with extensive documentation along with examples freely available on the internet. It offers a large number of statistical and numerical methods and graphical tools and visualization of extraordinarily high quality. R was recently ranked in 14th place by the Transparent Language Popularity Index and 6th as a scripting language, after PHP, Python, and Perl. The book is designed so that it can be used

right away by novices while appealing to experienced users as well. Each article begins with a data example that can be downloaded directly from the R website. Data analysis questions are articulated following the presentation of the data. The necessary R commands are spelled out and executed and the output is presented and discussed. Other examples of data sets with a different flavor and different set of commands but following the theme of the article are presented as well. Each chapter predents a hands-on-experience. R has superb graphical outlays and the book brings out the essentials in this arena. The end user can benefit immensely by applying the graphics to enhance research findings. The core statistical methodologies such as regression, survival analysis, and discrete data are all covered. Addresses data examples that can be downloaded directly from the R website No other source is needed to gain practical experience Focus on the essentials in graphical outlays

Learning Statistics with R Packt Publishing Ltd

The 2017 Fifth International Conference on Management and Technology in Knowledge, Service, Tourism & Hospitality (SERVE 2017) was held on 21-22 October 2017 and on 30 November 2017, in Bali, Indonesia and at the Financial University under the Government of the Russian Federation, Moscow, Russia. The theme of the conference was "Financial and Economic Tools Used in the World Hospitality Industry". Conference contributions dealt with various interdisciplinary research topics, particularly in the fields of social sciences, economics, business, management, education, and finance. Through this conference proceedings volume, we propose to launch a renewed discussion of how financial and economic tools can be used in the world hospitality, service, and tourism industries. The purpose of this volume is to develop new theoretical and empirical knowledge that explores the possibilities of developing tourism, hospitality, service industries in sharing economy. These proceedings should be of interest to academics and professionals in the wider field of social sciences, including disciplines such as education, psychology, tourism and knowledge management.

Financial and Economic Tools Used in the World Hospitality Industry CRC

Drawing on examples from across the social and behavioral sciences, Statistics with R: Solving Problems Using Real-World Data by Jenine K. Harris introduces foundational statistics concepts with

beginner-friendly R programming in an exploration of the world's tricky problems faced by the "R Team" characters. Inspired by the programming group "R Ladies," the R Team works together to master the skills of statistical analysis and data visualization to untangle real-world, messy data using R. The storylines draw students into investigating contemporary issues such as marijuana legalization, voter registration, and the opioid epidemic, and lead them step-by-step through full-color illustrations of R statistics and interactive exercises.

Categorical Data Analysis and Multilevel Modeling Using R World Scientific

Introduction to R for Social Scientists: A Tidy Programming Approach introduces the Tidy approach to programming in R for social science research to help quantitative researchers develop a modern technical toolbox. The Tidy approach is built around consistent syntax, common grammar, and stacked code, which contribute to clear, efficient programming. The authors include hundreds of lines of code to demonstrate a suite of techniques for developing and debugging an efficient social science research workflow. To deepen the dedication to teaching Tidy best practices for conducting social science research in R, the authors include numerous examples using real world data including the American National Election Study and the World Indicators Data. While no prior experience in R is assumed, readers are expected to be acquainted with common social science research designs and terminology. Whether used as a reference manual or read from cover to cover, readers will be equipped with a deeper understanding of R and the Tidyverse, as well as a framework for how best to leverage these powerful tools to write tidy, efficient code for solving problems. To this end, the authors provide many suggestions for additional readings and tools to build on the concepts covered. They use all covered techniques in their own work as scholars and practitioners. **Handbook of Statistics** Applied Econometrics with R

An R Companion to Applied Regression is a broad introduction to the R statistical computing environment in the context of applied regression analysis. John Fox and Sanford Weisberg provide a step-by-step guide to using the free statistical software R, an emphasis on integrating statistical computing in R with the practice of data analysis, coverage of generalized linear models, and substantial web-based support materials. The Third Edition has

been reorganized and includes a new chapter on mixed-effects models, new and updated data sets, and a de-emphasis on statistical programming, while retaining a general introduction to basic R programming. The authors have substantially updated both the car and effects packages for R for this edition, introducing additional capabilities and making the software more consistent and easier to use. They also advocate an everyday data-analysis workflow that encourages reproducible research. To this end, they provide coverage of RStudio, an interactive development environment for R that allows readers to organize and document their work in a simple and intuitive fashion, and then easily share their results with others. Also included is coverage of R Markdown, showing how to create documents that mix R commands with explanatory text.

Proceedings of the 5th International Conference on Management and Technology in Knowledge, Service, Tourism & Hospitality 2017 (SERVE 2017), 21-22 October 2017 & 30 November 2017, Bali, Indonesia &

Moscow, Russia Lulu.com Master predictive analytics, from start to finish Start with strategy and management Master methods and build models Transform your models into highlyeffective code—in both Python and R This one-of-a-kind book will help you use predictive analytics, Python, and R to solve real business problems and drive real competitive advantage. You'll master predictive analytics through realistic case studies, intuitive data visualizations, and up-to-date code for both Python and R—not complex math. Step by step, you'll walk through defining problems, identifying data, crafting and optimizing models, writing effective Python and R code, interpreting results, and more. Each chapter focuses on one of today's key applications for predictive analytics, delivering skills and knowledge to put models to work—and maximize their value. Thomas W. Miller, leader of Northwestern University's pioneering program in predictive analytics, addresses everything you need to succeed: strategy and management, methods and models, and technology and code. If you're new to predictive analytics, you'll gain a strong foundation for achieving accurate, actionable results. If you're already working in the field, you'll master powerful new skills. If you're familiar with either Python or R, you'll discover how these languages complement each other, enabling you to do even more. All data sets, extensive Python and R code, and

3 Package Lmtest R

additional examples available for download at

http://www.ftpress.com/miller/ Python and R offer immense power in predictive analytics, data science, and big data. This book will help you leverage that power to solve real business problems, and drive real competitive advantage. Thomas W. Miller's unique balanced approach combines business context and quantitative tools, illuminating each technique with carefully explained code for the latest versions of Python and R. If you're new to predictive analytics, Miller gives you a strong foundation for achieving accurate, actionable results. If you're already a modeler, programmer, or manager, you'll learn crucial skills you don't already have. Using Python and R, Miller addresses multiple business challenges, including segmentation, brand positioning, product choice modeling, pricing research, finance, sports, text analytics, sentiment analysis, and social network analysis. He illuminates the use of cross-sectional data, time series, spatial, and spatio-temporal data. You'll learn why each problem matters, what data are relevant, and how to explore the data you've identified. Miller guides you through conceptually modeling each data set with words and figures; and then modeling it again with realistic code that delivers actionable insights. You'll walk through model construction, explanatory variable subset selection, and validation, mastering best practices for improving out-of-sample predictive performance. Miller employs data visualization and statistical graphics to help you explore data, present models, and evaluate performance. Appendices include five complete case studies, and a detailed primer on modern data science methods. Use Python and R to gain powerful, actionable, profitable insights about: Advertising and promotion Consumer preference and choice Market baskets and related purchases Economic forecasting Operations management Unstructured text and language Customer sentiment Brand and price Sports team performance And much more

A Desktop Quick Reference Elsevier This book provides a narrative of how R can be useful in the analysis of public administration, public policy, and political science data specifically, in addition to the social sciences more broadly. It can serve as a textbook and reference manual for students and independent researchers who wish to use R for the first time or broaden their skill set with the program. While the book uses data drawn from political science, public administration,

and policy analyses, it is written so that students and researchers in other fields should find it accessible and useful as well. By the end of the first seven chapters, an entry-level user should be well acquainted with how to use R as a traditional econometric software program. The remaining four chapters will begin to introduce the user to advanced techniques that R offers but many other programs do not make available such as how to use contributed libraries or write programs in R. The book details how to perform nearly every task routinely associated with statistical modeling: descriptive statistics, basic inferences, estimating common models, and conducting regression diagnostics. For the intermediate or advanced reader, the book aims to open up the wide array of sophisticated methods options that R makes freely available. It illustrates how user-created libraries can be installed and used in real data analysis, focusing on a handful of libraries that have been particularly prominent in political science. The last two chapters illustrate how the user can conduct linear algebra in R and create simple programs. A key point in these chapters will be that such actions are substantially easier in R than in many other programs, so advanced techniques are more accessible in R, which will appeal to scholars and policy researchers who already conduct extensive data analysis. Additionally, the book should draw the attention of students and teachers of quantitative methods in the political disciplines.

SAGE Publications

Statistical Applications for Environmental Analysis and Risk Assessment guides readers through real-world situations and the best statistical methods used to determine the nature and extent of the problem, evaluate the potential human health and ecological risks, and design and implement remedial systems as necessary. Featuring numerous worked examples using actual data and "readymade" software scripts, Statistical Applications for Environmental Analysis and Risk Assessment also includes: • Descriptions of basic statistical concepts and principles in an informal style that does not presume prior familiarity with the subject • Detailed illustrations of statistical applications in the environmental and related water resources fields using realworld data in the contexts that would typically be encountered by practitioners • Software scripts using the high-powered statistical software system, R, and supplemented by USEPA's ProUCL and USDOE's VSP software packages, which

are all freely available • Coverage of frequent data sample issues such as nondetects, outliers, skewness, sustained and cyclical trend that habitually plague environmental data samples • Clear demonstrations of the crucial, but often overlooked, role of statistics in environmental sampling design and subsequent exposure risk assessment. Studies on Time Series Applications in Environmental Sciences Routledge 1 Introduction 5 1.1 Panel data econometrics: a gentle introduction 5 1.1.1 Eliminating unobserved components 6 1.2 R for econometric computing 11 1.2.1 The modus operandi of R 12 1.2.2 Data management 13 1.3 plm for the casual R user 14 1.3.1 R for the matrix language user 14 1.3.2 R for the user of econometric packages 16 1.4 plm for the procient R user 18 1.4.1 Reproducibile econometric work 18 1.4.2 Objectorientation for the user 19 1.5 plm for the R developer 20 1.5.1 Object orientation for development 21 1.6 Notations 24 2 The error component model 31 2.1 Notations and hypotheses 31 2.1.1 Notations 31 2.1.2 Some useful transformations 32 2.1.3 Hypotheses concerning the errors 34 2.2 Ordinary least squares estimators 36 2.2.1 Ordinary least squares on the raw data: the pooling model 36 2.2.2 The between estimator 38 2.2.3 The within estimator 39 2.3 The generalized least squares estimator 44 2.3.1 Presentation of the gls estimator 44 2.3.2 Estimation of the variances of the components of the error 46 2.4 Comparison of the estimators 51 2.4.1 Relations between the estimators 51 2.4.2 Comparison of the variances 52 2.4.3 Fixed vs random eects 53 2.4.4 Some simple linear model examples 55 2.5 The two-ways error components model 60 2.5.1 Error components in the two-ways model 60 2.5.2 Fixed and random eects models 61 2.6 Estimation of a wage equation 62 3 Advanced error components models 67 3.1 Unbalanced panels 67 3.1.1 Individual eects model 67 3.1.2 Two-ways error component model 69 3.1.3 Estimation of the components of the error variance 73 3.2 Seemingly unrelated regression equations 80 3.2.1 Introduction 80 3.2.2 Constrained least squares 81 3.2.3 Inter-equations correlation 82 3.2.4 SUR with panel data 83 3.3 The maximum likelihood estimator 88 3.3.1 Derivation of the likelihood function 89 3.3.2 Computation of the estimator 90 3.4 The nested error components model 92 3.4.1 Presentation of the model 92 3.4.2 Estimation of the variance of the error components 93 4 Tests on error component models 101 4.1 Tests on individual and/of time eects 102 4.1.1 F

tests 102 4.1.2 Breusch-Pagan tests 102 4.2 Tests for correlated eects 107 4.2.1 The Mundlak approach 108 4.2.2 Hausman's test 109 4.2.3 Chamberlain's approach 110 4.3 Tests for serial correlation 115 4.3.1 Unobserved eects test 116 4.3.2 Score test of serial correlation and/or individual eects 117 4.3.3 Likelihood Ratio tests for ar(1) and individual eects 120 4.3.4 Applying traditional serial correlation tests to panel data 122 4.3.5 Wald tests for serial correlation 124 4.4 Tests for crosssectional dependence 126 4.4.1 Pairwise correlation coe-cients 126 4.4.2 cd -type tests for cross-sectional dependence 127 4.4.3 Testing cross-sectional dependence in a pseries 129 5 Robust inference and estimation 133 5.1 Robust inference 133 5.1.1 Robust covariance estimators 134 5.1.2 plm and generic sandwich estimators 145 5.1.3 Robust testing of linear hypotheses 150 5.2 Unrestricted generalized least squares 154 5.2.1 General feasible generalized least squares 155 5.2.2 Applied examples 160 6 Endogeneity 167 6.1 Introduction 167 6.2 The instrumental variables estimator 168 6.2.1 Generalities about the instrumental variables estimator 168 6.2.2 The within instrumental variables estimator 170 6.3 Error components instrumental variables estimator 173 6.3.1 The general model 173 6.3.2 Special cases of the general model 176 6.4 Estimation of a system of equations 186 6.4.1 The three stage least squares estimator 186 6.4.2 The error components three stage least squares estimator 188 6.5 More empirical examples 191 7 Estimation of a dynamic model 193 7.1 Dynamic model and endogeneity 195 7.1.1 The bias of the ols estimator 195 7.1.2 The within estimator 197 7.1.3 Consistent estimation methods for dynamic models 198 7.2 gmm estimation of the dierenced model 201 7.2.1 Instrumental variables

Principles and Practice Springer Nature Categorical Data Analysis and Multilevel Modeling Using R provides a practical guide to regression techniques for analyzing binary, ordinal, nominal, and count response variables using the R software. Author Xing Liu offers a unified framework for both single-level and multilevel modeling of categorical and count response variables with both frequentist and Bayesian approaches.

Each chapter demonstrates how to conduct the analysis using R, how to interpret the models, and how to present the results for publication. A companion website for this book at https://edge.sagepub.com/liu1e contains datasets and R commands used in the book for students, and solutions for the end-of-chapter exercises on the instructor site

Monarchs in a Changing World FT Press

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 handson examples.

Probability and Statistics with RSpringer

Time series analysis and modelling represent a large study field, implying the approach from the perspective of the time and frequency, with applications in different domains. Modelling hydrometeorological time series is difficult due to the characteristics of these series, as long range dependence, spatial dependence, the correlation with other series. Continuous spatial data plays an important role in planning, risk assessment and decision making in environmental management. In this context, in this book we present various statistical tests and modelling techniques used for time series analysis, as well as applications to hydro-meteorological series from Dobrogea, a region situated in the south-eastern part of Romania, less studied till now. Part of the results are accompanied by their R code. <u>Urban Soils</u> Oxford University Press, USA This advanced undergraduate/graduate textbook teaches students in finance and economics how to use R to analyse financial data and implement financial models. It demonstrates how to take publically available data and manipulate, implement models and generate outputs typical for particular analyses. A wide spectrum of timely and practical issues in financial modelling are covered including return and risk measurement, portfolio management, option pricing and fixed income analysis. This new edition updates and expands upon the existing material providing updated examples and new chapters on equities, simulation and trading strategies, including machine learnings techniques. Select data sets are available online.