Douglas A. Luke

A User's Guide to Network Analysis in R

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A Users Guide To Network Analysis In R:

   A User's Guide to Network Analysis in R Douglas Luke,2015-12-14 Presenting a comprehensive resource for the mastery of network analysis in R the goal of Network Analysis with R is to introduce modern network analysis techniques in R to social physical and health scientists The mathematical foundations of network analysis are emphasized in an accessible way and readers are guided through the basic steps of network studies network conceptualization data collection and management network description visualization and building and testing statistical models of networks As with all of the books in the Use R series each chapter contains extensive R code and detailed visualizations of datasets Appendices will describe the R network packages and the datasets used in the book An R package developed specifically for the book available to readers on GitHub contains relevant code and real world network datasets as well   **A User's Guide to Network Analysis in R** Douglas Luke,2015 Presenting a comprehensive resource for the mastery of network analysis in R the goal of Network Analysis with R is to introduce modern network analysis techniques in R to social physical and health scientists The mathematical foundations of network analysis are emphasized in an accessible way and readers are guided through the basic steps of network studies network conceptualization data collection and management network description visualization and building and testing statistical models of networks As with all of the books in the Use R series each chapter contains extensive R code and detailed visualizations of datasets Appendices will describe the R network packages and the datasets used in the book An R package developed specifically for the book available to readers on GitHub contains relevant code and real world network datasets as well   Energy Research Abstracts ,1993   *Quantitative Economics with R* Vikram Dayal,2020-02-03 This book provides a contemporary treatment of quantitative economics with a focus on data science The book introduces the reader to R and RStudio and uses expert Hadley Wickham s tidyverse package for different parts of the data analysis workflow After a gentle introduction to R code the reader s R skills are gradually honed with the help of your turn exercises At the heart of data science is data and the book equips the reader to import and wrangle data including network data Very early on the reader will begin using the popular ggplot2 package for visualizing data even making basic maps The use of R in understanding functions simulating difference equations and carrying out matrix operations is also covered The book uses Monte Carlo simulation to understand probability and statistical inference and the bootstrap is introduced Causal inference is illuminated using simulation data graphs and R code for applications with real economic examples covering experiments matching regression discontinuity difference in difference and instrumental variables The interplay of growth related data and models is presented before the book introduces the reader to time series data analysis with graphs simulation and examples Lastly two computationally intensive methods generalized additive models and random forests an important and versatile machine learning method are introduced intuitively with applications The book will be of great interest to economists students teachers and researchers alike who want to learn R It will help

economics students gain an intuitive appreciation of applied economics and enjoy engaging with the material actively while also equipping them with key data science skills   Energy Research Abstracts ,1988 Includes all works deriving from DOE other related government sponsored information and foreign nonnuclear information   Energy Abstracts for Policy Analysis ,1982   *Control of Electronic Circuit Designs for Space Vehicles* O. James Magrini,1970   **Scientific and Technical Aerospace Reports** ,1976   NASA Technical Note ,1970   **Visualizing History's Fragments** Ashley R. Sanders,2024-06-19 This book combines a methodological guide with an extended case study to show how digital research methods can be used to explore how ethnicity gender and kinship shaped early modern Algerian society and politics However the approaches presented have applications far beyond this specific study More broadly these methods are relevant for those interested in identifying and studying relational data demographics politics discourse authorial bias and social networks of both known and unnamed actors Ashley R Sanders explores how digital research methods can be used to study archival specters people who lived breathed and made their mark on history but whose presence in the archives and extant documents remains limited at best if not altogether lost Although digital tools cannot metaphorically resurrect the dead nor fill archival gaps they can help us excavate the people shaped outlines of those who might have filled these spaces The six methodological chapters explain why and how each research method is used present the visual and quantitative results and analyze them within the context of the historical case study In addition every dataset is available on SpringerLink as Electronic Supplementary Material ESM and each chapter is accompanied by one or more video tutorials that demonstrate how to apply each of the techniques described accessed via the SN More Media App   Data Wrangling with R Bradley C. Boehmke, Ph.D.,2016-11-17 This guide for practicing statisticians data scientists and R users and programmers will teach the essentials of preprocessing data leveraging the R programming language to easily and quickly turn noisy data into usable pieces of information Data wrangling which is also commonly referred to as data munging transformation manipulation janitor work etc can be a painstakingly laborious process Roughly 80% of data analysis is spent on cleaning and preparing data however being a prerequisite to the rest of the data analysis workflow visualization analysis reporting it is essential that one become fluent and efficient in data wrangling techniques This book will guide the user through the data wrangling process via a step by step tutorial approach and provide a solid foundation for working with data in R The author s goal is to teach the user how to easily wrangle data in order to spend more time on understanding the content of the data By the end of the book the user will have learned How to work with different types of data such as numerics characters regular expressions factors and dates The difference between different data structures and how to create add additional components to and subset each data structure How to acquire and parse data from locations previously inaccessible How to develop functions and use loop control structures to reduce code redundancy How to use pipe operators to simplify code and make it more readable How to reshape the layout of data and manipulate summarize and join data sets   **Learning Analytics in R with**

SNA, LSA, and MPIA Fridolin Wild,2016-04-04 This book introduces Meaningful Purposive Interaction Analysis MPIA theory which combines social network analysis SNA with latent semantic analysis LSA to help create and analyse a meaningful learning landscape from the digital traces left by a learning community in the co construction of knowledge The hybrid algorithm is implemented in the statistical programming language and environment R introducing packages which capture through matrix algebra elements of learners work with more knowledgeable others and resourceful content artefacts The book provides comprehensive package by package application examples and code samples that guide the reader through the MPIA model to show how the MPIA landscape can be constructed and the learner s journey mapped and analysed This building block application will allow the reader to progress to using and building analytics to guide students and support decision making in learning   Simulation and Inference for Stochastic Processes with YUIMA Stefano M. Iacus,Nakahiro Yoshida,2018-06-01 The YUIMA package is the first comprehensive R framework based on S4 classes and methods which allows for the simulation of stochastic differential equations driven by Wiener process L vy processes or fractional Brownian motion as well as CARMA COGARCH and Point processes The package performs various central statistical analyses such as quasi maximum likelihood estimation adaptive Bayes estimation structural change point analysis hypotheses testing asynchronous covariance estimation lead lag estimation LASSO model selection and so on YUIMA also supports stochastic numerical analysis by fast computation of the expected value of functionals of stochastic processes through automatic asymptotic expansion by means of the Malliavin calculus All models can be multidimensional multiparametric or non parametric The book explains briefly the underlying theory for simulation and inference of several classes of stochastic processes and then presents both simulation experiments and applications to real data Although these processes have been originally proposed in physics and more recently in finance they are becoming popular also in biology due to the fact the time course experimental data are now available The YUIMA package available on CRAN can be freely downloaded and this companion book will make the user able to start his or her analysis from the first page   *Learn ggplot2 Using Shiny App* Keon-Woong Moon,2017-04-13 This book and app is for practitioners professionals researchers and students who want to learn how to make a plot within the R environment using ggplot2 step by step without coding In widespread use in the statistical communities R is a free software language and environment for statistical programming and graphics Many users find R to have a steep learning curve but to be extremely useful once overcome ggplot2 is an extremely popular package tailored for producing graphics within R but which requires coding and has a steep learning curve itself and Shiny is an open source R package that provides a web framework for building web applications using R without requiring HTML CSS or JavaScript This manual integrating R ggplot2 and Shiny introduces a new Shiny app Learn ggplot2 that allows users to make plots easily without coding With the Learn ggplot2 Shiny app users can make plots using ggplot2 without having to code each step reducing typos and error messages and allowing users to become familiar with ggplot2 code The app makes it easy to

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partners and organizations to create value for the end users and to generate positive economic and social outcomes RTB has accelerated the scaling of innovations to reach many end users cost effectively Though most of the book s examples and insights are from Africa they can be applied worldwide The book will be useful for decision makers designing policies to scale up agricultural solutions for researchers and extension specialists seeking practical ideas and for scholars of innovation

Student Reasoning in Organic Chemistry Professor Nicole Graulich,Dr Ginger Shultz,2022-12-21 Reasoning about structure reactivity and chemical processes is a key competence in chemistry Especially in organic chemistry students experience difficulty appropriately interpreting organic representations and reasoning about the underlying causality of organic mechanisms As organic chemistry is often a bottleneck for students success in their career compiling and distilling the insights from recent research in the field will help inform future instruction and the empowerment of chemistry students worldwide This book brings together leading research groups to highlight recent advances in chemistry education research with a focus on the characterization of students reasoning and their representational competencies as well as the impact of instructional and assessment practices in organic chemistry Written by leaders in the field Student Reasoning in Organic Chemistry is ideal for chemistry education researchers instructors and practitioners and graduate students in chemistry education   *Fossil Energy Update* ,1982   **Federally Coordinated Program of Highway Research, Development and Technology** ,1983

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