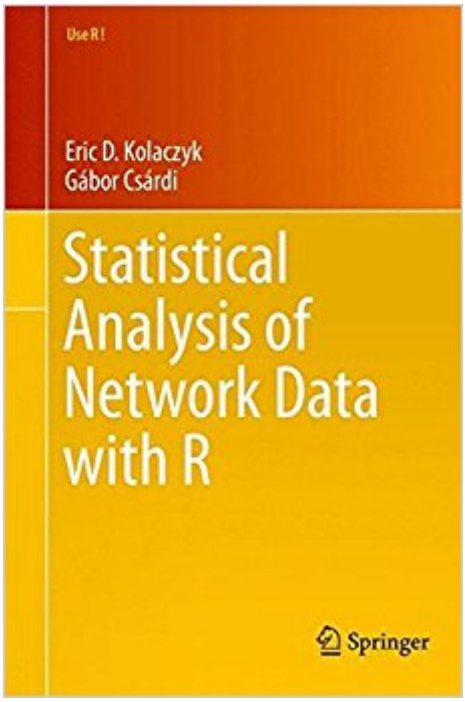
Ebook Directory
the best source of ebook

The book was found

Statistical Analysis Of Network Data With R (Use R!)



PDF
Adobe
DOWNLOAD EBOOK

Synopsis

Networks have permeated everyday life through everyday realities like the Internet, social networks, and viral marketing. As such, network analysis is an important growth area in the quantitative sciences, with roots in social network analysis going back to the 1930s and graph theory going back centuries. Measurement and analysis are integral components of network research. As a result, statistical methods play a critical role in network analysis. This book is the first of its kind in network research. It can be used as a stand-alone resource in which multiple R packages are used to illustrate how to conduct a wide range of network analyses, from basic manipulation and visualization, to summary and characterization, to modeling of network data. The central package is igraph, which provides extensive capabilities for studying network graphs in R. This text builds on Eric D. KolaczykÃ¢â ¬â„¢s book Statistical Analysis of Network Data (Springer, 2009).

Book Information

Series: Use R! (Book 65)

Paperback: 207 pages

Publisher: Springer; 2014 edition (May 23, 2014)

Language: English

ISBN-10: 1493909827

ISBN-13: 978-1493909827

Product Dimensions: 6.1 x 0.5 x 9.2 inches

Shipping Weight: 11.2 ounces (View shipping rates and policies)

Average Customer Review: 4.6 out of 5 stars 3 customer reviews

Best Sellers Rank: #368,888 in Books (See Top 100 in Books) #90 inÃ Â Books > Science & Math > Physics > System Theory #97 inÃ Â Books > Computers & Technology > Computer Science > Bioinformatics #209 inÃ Â Books > Science & Math > Physics > Mathematical Physics

Customer Reviews

Ã¢â ¬Å“If students mastered this material, they would be well positioned to begin working on data and making further progress on their own. Ã¢â ¬Â¦ SANDR covers a lot of basic and important material while teaching the reader how to work with data and models in R. Ã¢â ¬Â¦ The book appears to be the only one available that covers the material at an introductory and practical level. Ã¢â ¬Â¦ On the whole, I am happy to recommend it.Ã¢â ¬Â• (Earl C. Lawrence, Journal of the American Statistical Association, June, 2015)Ã¢â ¬Å“This book presents contemporary mathematical and statistical methods of networks analysis and their implementation in R, written by

the experts in this field Ã¢â ¬Â| . The monograph presents an excellent description of a wide span of operations possible on networks, and is very useful for researchers and students.Ã¢â ¬Â• (Stan Lipovetsky, Technometrics, Vol. 57 (2), May, 2015)Ã¢â ¬Å“This book is a quite practical guide to get started with analyzing networks using the statistical software R. Ã¢â ¬Â| Relevant references are conveniently provided at the end of each chapter. Ã¢â ¬Â| it is a very nice hands-on introduction to the analysis of network data that gives a good overview suitable for applied scientists and statisticians.Ã¢â ¬Â• (Klaus Nordhausen, International Statistical Review, Vol. 83 (1), 2015)

Networks have permeated everyday life through everyday realities like the Internet, social networks, and viral marketing. As such, network analysis is an important growth area in the quantitative sciences, with roots in social network analysis going back to the 1930s and graph theory going back centuries. Measurement and analysis are integral components of network research. As a result, statistical methods play a critical role in network analysis. This book is the first of its kind in network research. It can be used as a stand-alone resource in which multiple R packages are used to illustrate how to conduct a wide range of network analyses, from basic manipulation and visualization, to summary and characterization, to modeling of network data. The central package is igraph, which provides extensive capabilities for studying network graphs in R. This text builds on Eric D. KolaczykÃ¢â ¬â„¢s book Statistical Analysis of Network Data (Springer, 2009).

This is a great introduction to the 'igraph' package for R. Someone who is just a beginner in using R can probably use this book, but it's probably best to have already been using it for some time. The 'igraph' package is pretty extensive, but this book will give you enough tools to explore what else the package can do.It also covers the basics of doing network analyses. It doesn't go very deeply into any topics, really (nor does it have proofs or much theory), so it is best used in conjunction with (or perhaps after reading) Kolaczyk's other text (http://amzn.com/038788145X). I used this after having used the other text.

Great book for network analysis (although you need to know a little bit of R before you can use it).

Very good and concise introduction to the main statistical concepts you'll need to analyze networks and examples well integrated throughout.

Download to continue reading...

Analytics: Business Intelligence, Algorithms and Statistical Analysis (Predictive Analytics, Data

Visualization, Data Analytics, Business Analytics, Decision Analysis, Big Data, Statistical Analysis) Analytics: Data Science, Data Analysis and Predictive Analytics for Business (Algorithms, Business Intelligence, Statistical Analysis, Decision Analysis, Business Analytics, Data Mining, Big Data) Data Analytics: What Every Business Must Know About Big Data And Data Science (Data Analytics for Business, Predictive Analysis, Big Data Book 1) Data Analytics: Applicable Data Analysis to Advance Any Business Using the Power of Data Driven Analytics (Big Data Analytics, Data Science, Business Intelligence Book 6) Statistical Analysis of Network Data with R (Use R!) Network Marketing: Go Pro in Network Marketing, Build Your Team, Serve Others and Create the Life of Your Dreams - Network Marketing Secrets Revealed, ... Books, Scam Free Network Marketing Book 1) Big Data For Business: Your Comprehensive Guide to Understand Data Science, Data Analytics and Data Mining to Boost More Growth and Improve Business - Data Analytics Book, Series 2 Network Marketing For Introverts: Guide To Success For The Shy Network Marketer (network marketing, multi level marketing, mlm, direct sales) Data Analytics For Beginners: Your Ultimate Guide To Learn and Master Data Analysis. Get Your Business Intelligence Right Ã¢â ¬â œ Accelerate Growth and Close More Sales (Data Analytics Book Series) Wireshark Network Analysis (Second Edition): The Official Wireshark Certified Network Analyst Study Guide Statistical Methods for Data Analysis in Particle Physics (Lecture Notes in Physics) Data Analysis and Graphics Using R: An Example-Based Approach (Cambridge Series in Statistical and Probabilistic Mathematics) Statistical Modeling for Biomedical Researchers: A Simple Introduction to the Analysis of Complex Data Introduction to Statistical Data Analysis for the Life Sciences Introduction to Statistical Data Analysis for the Life Sciences, Second Edition Analysis of Longitudinal Data (Oxford Statistical Science Series) The Statistical Analysis of Compositional Data Data Science for Business: What You Need to Know about Data Mining and Data-Analytic Thinking Data Science and Big Data Analytics: Discovering, Analyzing, Visualizing and Presenting Data Data Analytics and Python Programming: 2 Bundle Manuscript: Beginners Guide to Learn Data Analytics, Predictive Analytics and Data Science with Python Programming

Contact Us

DMCA

Privacy

FAQ & Help