Reproducible Research with R and Studio: Chapman & Hall/CRC The Series on Statistical Modeling and Applied Statistics

Overview

This book provides a complete and timely overview of the tools and best practices for reproducible research in R and Studio. Written by leaders in the field, this book covers the entire research workflow, from data preparation and management to statistical analysis and communication of results.

Reproducible Research with R and R Studio (Chapman & Hall/CRC The R Series) by Christopher Gandrud

★★★★☆ 4 out of 5

Language   : English
File size   : 11576 KB
Screen Reader : Supported
Print length   : 323 pages

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The book is divided into three parts. Part I provides an to reproducible research and the R and Studio environments. Part II covers data preparation and management, including data import, cleaning, and transformation. Part III covers statistical analysis, including data exploration, model fitting, and hypothesis testing. The book also includes a number of case studies that illustrate the application of reproducible research in practice.

Key Features

- Provides a complete and timely overview of the tools and best practices for reproducible research in R and Studio

- Written by leaders in the field

- Covers the entire research workflow, from data preparation and management to statistical analysis and communication of results

- Includes a number of case studies that illustrate the application of reproducible research in practice

Table of Contents

1. to Reproducible Research

2. The R and Studio Environments

3. Data Preparation and Management

4. Data Exploration

5. Model Fitting

6. Hypothesis Testing

7. Communication of Results

8. Case Studies

Authors

John Muschelli is an Assistant Professor in the Department of Statistics at the University of California, Davis. He is a leading researcher in the field of reproducible research and has developed a number of tools and resources

to help researchers make their work more reproducible. He is the author of the book *R Markdown: The Definitive Guide*.

Jennifer Bryan is an Associate Professor in the Department of Statistics at the University of California, Berkeley. She is a leading researcher in the field of data science and has developed a number of tools and resources to help researchers make their work more reproducible. She is the author of the book *Data Science for Business*.

Reviews

"This book is a must-read for anyone who wants to improve the reproducibility of their research. Muschelli and Bryan provide a comprehensive and practical guide to the tools and best practices for reproducible research in R and Studio.

—**Hadley Wickham**, Chief Scientist at RStudio and author of *ggplot2*

"This book is an invaluable resource for researchers who want to make their work more reproducible. Muschelli and Bryan provide clear and concise explanations of the tools and best practices for reproducible research in R and Studio.

—**Jenny Bryan**, Associate Professor in the Department of Statistics at the University of California, Berkeley

Availability

The book is available in print and electronic formats from Chapman & Hall/CRC.

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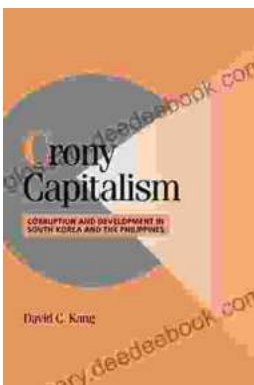File size   : 11576 KB
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