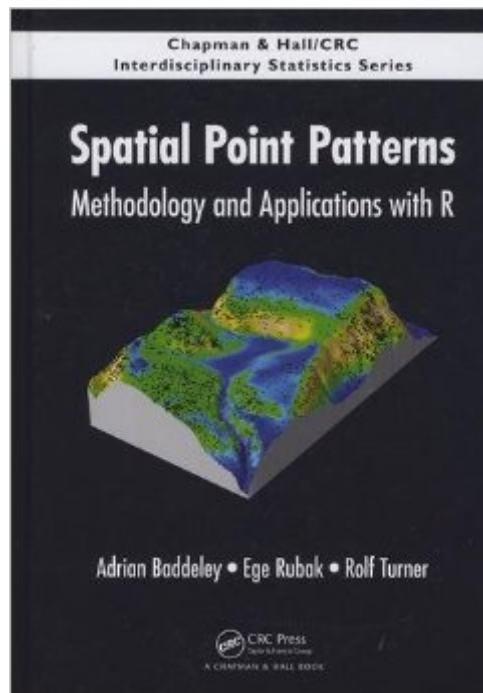


The book was found

Spatial Point Patterns: Methodology And Applications With R (Chapman & Hall/CRC Interdisciplinary Statistics)



Synopsis

Modern Statistical Methodology and Software for Analyzing Spatial Point Patterns Spatial Point Patterns: Methodology and Applications with R shows scientific researchers and applied statisticians from a wide range of fields how to analyze their spatial point pattern data. Making the techniques accessible to non-mathematicians, the authors draw on their 25 years of software development experiences, methodological research, and broad scientific collaborations to deliver a book that clearly and succinctly explains concepts and addresses real scientific questions. Practical Advice on Data Analysis and Guidance on the Validity and Applicability of Methods The first part of the book gives an introduction to R software, advice about collecting data, information about handling and manipulating data, and an accessible introduction to the basic concepts of point processes. The second part presents tools for exploratory data analysis, including non-parametric estimation of intensity, correlation, and spacing properties. The third part discusses model-fitting and statistical inference for point patterns. The final part describes point patterns with additional "structure," such as complicated marks, space-time observations, three- and higher-dimensional spaces, replicated observations, and point patterns constrained to a network of lines. Easily Analyze Your Own Data Throughout the book, the authors use their spatstat package, which is free, open-source code written in the R language. This package provides a wide range of capabilities for spatial point pattern data, from basic data handling to advanced analytic tools. The book focuses on practical needs from the user's perspective, offering answers to the most frequently asked questions in each chapter.

Book Information

Series: Chapman & Hall/CRC Interdisciplinary Statistics

Hardcover: 828 pages

Publisher: Chapman and Hall/CRC (November 24, 2015)

Language: English

ISBN-10: 1482210207

ISBN-13: 978-1482210200

Product Dimensions: 7.1 x 1.8 x 10.1 inches

Shipping Weight: 3.9 pounds (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 stars See all reviews (2 customer reviews)

Best Sellers Rank: #317,405 in Books (See Top 100 in Books) #23 in Books > Computers & Technology > Programming > Graphics & Multimedia > GIS #834 in Books > Textbooks >

Science & Mathematics > Mathematics > Statistics #1259 inÂ Books > Science & Math > Mathematics > Applied > Probability & Statistics

Customer Reviews

Baddeley, Rubak and Turner had the capability to explain and illustrated the theory, math, principles and applications of spatial point pattern analysis in such way that people in different disciplines have the capability to grasp all this information and applied into their own fields. Their contribution goes beyond the theoretical background, it is supported by the spatstat package. The book is well organized, the reader would find background, examples and implementation. Even for people who is not fully comfortable with R. Go to the book's website to find few corrections in the text and full code.

Best book in the field of the point pattern.

[Download to continue reading...](#)

Spatial Point Patterns: Methodology and Applications with R (Chapman & Hall/CRC Interdisciplinary Statistics) Group Sequential Methods with Applications to Clinical Trials (Chapman & Hall/CRC Interdisciplinary Statistics) Introduction to Computational Biology: Maps, Sequences and Genomes (Chapman & Hall/CRC Interdisciplinary Statistics) Graphics for Statistics and Data Analysis with R (Chapman & Hall/CRC Texts in Statistical Science) Data Classification: Algorithms and Applications (Chapman & Hall/CRC Data Mining and Knowledge Discovery Series) Statistics for People Who (Think They) Hate Statistics (Salkind, Statistics for People Who(Think They Hate Statistics(Without CD)) Crochet: Easy Crochet Patterns: Crochet Patterns for Beginners (Crochet: Step by Step Crochet, Crochet Patterns, Easy Crochet Patterns, Crochet Patterns for Beginners, and Crochet Projects) The Kurzweil-Henstock Integral and Its Differential: A Unified Theory of Integration on $\mathbb{R}$ and $\mathbb{R}^n$ (Chapman & Hall/CRC Pure and Applied Mathematics) Image Processing and Acquisition using Python (Chapman & Hall/CRC Mathematical and Computational Imaging Sciences Series) Web 2.0 and Beyond: Principles and Technologies (Chapman & Hall/CRC Textbooks in Computing) Coding Theory and Cryptography: The Essentials, Second Edition (Chapman & Hall/CRC Pure and Applied Mathematics) Binary Polynomial Transforms and Non-Linear Digital Filters (Chapman & Hall/CRC Pure and Applied Mathematics) Numerical Techniques for Direct and Large-Eddy Simulations (Chapman & Hall/CRC Numerical Analysis and Scientific Computing Series) Introduction to Modern Cryptography: Principles and Protocols (Chapman & Hall/CRC Cryptography and Network Security Series) An Introduction to Multicomplex SPates and Functions (Chapman &

Hall/CRC Pure and Applied Mathematics) Introduction to Modern Cryptography, Second Edition (Chapman & Hall/CRC Cryptography and Network Security Series) The Garbage Collection Handbook: The Art of Automatic Memory Management (Chapman & Hall/CRC Applied Algorithms and Data Structures series) Algorithms in Bioinformatics: A Practical Introduction (Chapman & Hall/CRC Mathematical and Computational Biology) Computer Graphics Through OpenGL: From Theory to Experiments (Chapman & Hall/CRC Computer Graphics, Geometric Modeling, and Animation) Introduction to Network Security (Chapman & Hall/CRC Computer and Information Science Series)

[Dmca](#)