

Statistical Analysis of Spatial and Spatio-Temporal Point Patterns: Unlocking the Secrets of Point Data



Statistical Analysis of Spatial and Spatio-Temporal Point Patterns (Chapman & Hall/CRC Monographs on Statistics & Applied Probability Book 128) by Joe Grant

★ ★ ★ ★ ☆ 4 out of 5

Language : English

File size : 28399 KB

Screen Reader : Supported

Print length : 300 pages



Point patterns, ubiquitous in various disciplines, hold invaluable information about the spatial distribution of events or objects. 'Statistical Analysis of Spatial and Spatio-Temporal Point Patterns' by Chapman & Hall empowers researchers and practitioners with a comprehensive understanding of statistical techniques to analyze and interpret such data.

Unveiling Spatial Patterns

This authoritative guide delves into the fundamental concepts of spatial point patterns, equipping readers with the knowledge to identify and quantify spatial relationships. Through detailed explanations and illustrative examples, the book covers:

- Measures of spatial clustering and dispersion

- Statistical tests for spatial randomness
- Models for spatial point processes
- Applications in various fields, including ecology, epidemiology, and criminology

Exploring Spatio-Temporal Dynamics

Beyond static spatial analysis, the book explores the captivating world of spatio-temporal point patterns, where events unfold both in space and time. Readers will delve into:

- Modeling spatio-temporal point processes
- Statistical inference for spatio-temporal data
- Case studies showcasing applications in disease surveillance and traffic analysis

Advanced Techniques and Applications

For those seeking a deeper understanding, the book delves into advanced topics, including:

- Markov chain Monte Carlo methods
- Bayesian inference for spatial point processes
- Applications in environmental monitoring and resource allocation

Exceptional Features

What sets 'Statistical Analysis of Spatial and Spatio-Temporal Point Patterns' apart is its:

- **Comprehensive coverage:** Covers both spatial and spatio-temporal point patterns, providing a comprehensive understanding of the field.
- **Rigorous yet accessible:** Presents complex concepts with clarity and numerous examples, making it suitable for researchers and practitioners of various backgrounds.
- **Practical applications:** Includes real-world case studies and exercises, demonstrating the utility of spatial point pattern analysis in diverse fields.
- **Authoritative authorship:** Written by leading experts in the field, ensuring the highest quality and accuracy of information.

Target Audience

This book is an invaluable resource for:

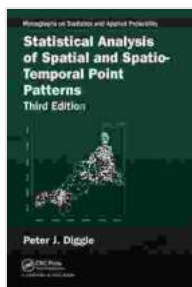
- Researchers in spatial statistics, geography, ecology, epidemiology, and criminology
- Practitioners seeking to apply spatial point pattern analysis in their work
- Students pursuing graduate-level courses in spatial analysis and statistics

'Statistical Analysis of Spatial and Spatio-Temporal Point Patterns' is an essential guide for anyone interested in understanding and analyzing point data. It empowers readers to uncover hidden patterns, make informed decisions, and gain deeper insights into the world around us.

Free Download your copy today and embark on a journey of discovery, transforming your understanding of spatial and spatio-temporal data analysis.

Call to Action

Free Download 'Statistical Analysis of Spatial and Spatio-Temporal Point Patterns' now



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