

Statistical Analysis of Panel Count Data: A Powerful Tool for Biological and Health Researches

Panel count data, a type of data that arises when we observe counts repeatedly over time for a set of subjects, are frequently encountered in biological and health research. Analyzing such data presents unique challenges, as the counts are typically overdispersed and correlated, violating the assumptions of standard statistical models.

In this book, we provide a comprehensive and accessible to the statistical analysis of panel count data. We begin by introducing the basic concepts and notation, and then discuss a range of statistical methods that are appropriate for analyzing such data, including Poisson regression, negative binomial regression, and generalized linear models. We also cover advanced topics such as overdispersion, correlated data, and model selection.



Statistical Analysis of Panel Count Data (Statistics for Biology and Health Book 80)

★★★★★ 5 out of 5

Language : English

File size : 3132 KB

Text-to-Speech : Enabled

Screen Reader : Supported

Print length : 286 pages

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Key Features

- Provides a comprehensive and accessible to the statistical analysis of panel count data.
- Covers a wide range of topics, from basic concepts to advanced techniques.
- Includes numerous examples and case studies to illustrate the discussed methods.
- Written by leading experts in the field of biostatistics.

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1. to Panel Count Data
2. Poisson Regression
3. Negative Binomial Regression
4. Generalized Linear Models
5. Overdispersion
6. Correlated Data
7. Model Selection
8. Applications in Biological and Health Research

Audience

This book is intended for researchers and practitioners in the fields of biology, health sciences, and statistics who are interested in analyzing panel count data. It is also suitable for use as a textbook for graduate-level courses on statistical methods for longitudinal data.

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