

Book Reviews | Reseñas

THE ANALYSIS OF CONTINGENCY TABLES

Brian S. Everit (2019)

Chapman and Hall/CRC

ISBN 9780367450410

vii+168

Common applications in medicine and the social sciences generate categorical data and the researchers are at home with using contingency tables for analyzing. That is due to the need of inferring on relationships or associations between pairs as well as between a set of such categorical variables. This text provides a modern and comprehensive presentation of key issues on the analysis of such tables. It is written at an adequate mathematical level suitable physicians and social scientists. The book includes methods developed over the last decade or so, for example, logistic regression models for tables with ordered categories and for response variables with more than two categories. The methods of analysis described in this book should be relevant to research workers and graduate students dealing with analyzing survey generated data. The structure of the book may be described as containing chi-square testing methods (including Multidimensional tables), Log-linear models, Linear-logistic models, Contingency tables with ordered categories as well as some particular kinds of contingency tables.

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AN INTRODUCTION TO NONPARAMETRIC STATISTICS

John E. Kolassa (2020)

Chapman and Hall/CRC.

ISBN 9780367194840

v+224

This book is introductory to them and is well suited for courses in humanities, medicine and other non-mathematical oriented courses. Nevertheless, such courses would need of knowledge of elements of probability, statistics and regression. So are prerequisites knowledges on differentiation, integration and in matrix algebra. It is well known that; nonparametric tools do not rely on strong assumptions on the distributions of the involved variables. Are studied at a good level for practitioners Rank-based tests (Sign, Kruskal-Wallis, Friedman, Mann-Whitney and Wilcoxon). Techniques for the use of them for developing estimation, both point and interval, are presented. The behavior of theoretical models and the needed tools for performing tests are illustrated through examples, and they are reinforced by examples, some of them coming from real life

It is remarkable the discussion on resampling (bootstrap & jackknife) and in basic elements of robust techniques. Interesting features are the presentation of non-common in non-parametrical books: Multivariate Tests, Density Estimation and Regression Function Estimates.

The book presents the more useful computational supports provided by in R and SAS.

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PERSON-CENTERED METHODS: CONFIGURAL FREQUENCY ANALYSIS (CFA) AND OTHER METHODS FOR THE ANALYSIS OF CONTINGENCY TABLES (2nd Ed. 2020 Edition).

Mark Stemmler (2020)

Springer; (Springerbriefs in Statistics)

ISBN-10 : 3030494209

vii+128

ISBN-13 : 978-3030494209

This book embodies principles and applications of the person-centered method. It does not rely on analyzing means, variances and covariances etc., which is the basis of the usual variable-centered approach. The person-centered approach basically develops analysis of persons (objects) which are grouped in contingency tables in terms of their patterns. The objective of the book is introducing book in the form of chapters the relationship between log-linear modeling, which is based on the search of underlying dependencies in the line of model-fitting, and configural frequency analysis, which examines the residuals of the non-fitting models. The methods described are capable of dealing with categorical together with continuous variables. As in the previous edition the R-package “confreq” provides the computational support of the numerical analysis.

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MULTIPLE REGRESSION: A PRACTICAL INTRODUCTION

Aki Roberts , John M. Roberts (2020)

SAGE Publications, Inc.

ISBN-10 : 1544339704

xii+280

ISBN-13 : 978-1544339702

This text is intended for a course for undergraduate or beginning graduate in statistics for social science and related fields. Though is possible to go into it in a nontechnical manner the course is best taken after an introductory course in statistical methodology. It includes examples on the analyses and interpretations of models and exercises. Codes and commands are given for SPSS, Stata, SAS, and R for the types. A website have solutions to the exercises.

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INTRODUCTION TO ITEM RESPONSE THEORY MODELS AND APPLICATIONS

James Carlson (2020)

Routledge, (Multivariate Applications Series)

ISBN-10 : 0367471019

x+166

ISBN-13 : 978-0367471019

Written by a longtime experimented professor shows how to work with item response theory (IRT) modeling and to design and analyze data. Graphics and artificial data sets are used for supporting the groundings of IRT. The reader does not need to have sophisticated mathematical knowledge. Commonly used IRT models are discussed ant their behavior illustrated. Among them items scored in dichotomous and polytomous scales. Each chapter presents the models together with instructions and illustrations for applying them. The book may be used as a text for undergraduate and postgraduate teaching of students of the behavioral and social sciences.

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