



Statistical Methods for Categorical Data Analysis

Second Edition

Daniel A. Powers • Yu Xie

Statistical Methods For Categorical Data Analysis

Alan Agresti

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Statistical Methods For Categorical Data Analysis:

Statistical Methods for Categorical Data Analysis Daniel Powers, Yu Xie, 2008-11-13 This book provides a comprehensive introduction to methods and models for categorical data analysis and their applications in social science research Companion website also available at <https://webSPACE.utexas.edu/dpowers/www> Categorical Data Analysis Alan Agresti, 2012-12-03 Praise for the Second Edition A must have book for anyone expecting to do research and or applications in categorical data analysis Statistics in Medicine It is a total delight reading this book Pharmaceutical Research If you do any analysis of categorical data this is an essential desktop reference Technometrics The use of statistical methods for analyzing categorical data has increased dramatically particularly in the biomedical social sciences and financial industries Responding to new developments this book offers a comprehensive treatment of the most important methods for categorical data analysis Categorical Data Analysis Third Edition summarizes the latest methods for univariate and correlated multivariate categorical responses Readers will find a unified generalized linear models approach that connects logistic regression and Poisson and negative binomial loglinear models for discrete data with normal regression for continuous data This edition also features An emphasis on logistic and probit regression methods for binary ordinal and nominal responses for independent observations and for clustered data with marginal models and random effects models Two new chapters on alternative methods for binary response data including smoothing and regularization methods classification methods such as linear discriminant analysis and classification trees and cluster analysis New sections introducing the Bayesian approach for methods in that chapter More than 100 analyses of data sets and over 600 exercises Notes at the end of each chapter that provide references to recent research and topics not covered in the text linked to a bibliography of more than 1 200 sources A supplementary website showing how to use R and SAS for all examples in the text with information also about SPSS and Stata and with exercise solutions Categorical Data Analysis Third Edition is an invaluable tool for statisticians and methodologists such as biostatisticians and researchers in the social and behavioral sciences medicine and public health marketing education finance biological and agricultural sciences and industrial quality control A Course in Categorical Data Analysis Thomas Leonard, 2020-08-26 Categorical data comprising counts of individuals objects or entities in different categories emerge frequently from many areas of study including medicine sociology geology and education They provide important statistical information that can lead to real life conclusions and the discovery of fresh knowledge Therefore the ability to manipulate understand and interpret categorical data becomes of interest if not essential to professionals and students in a broad range of disciplines Although t tests linear regression and analysis of variance are useful valid methods for analysis of measurement data categorical data requires a different methodology and techniques typically not encountered in introductory statistics courses Developed from long experience in teaching categorical analysis to a multidisciplinary mix of undergraduate and graduate students A Course in Categorical Data Analysis presents the easiest most straightforward ways of extracting real

life conclusions from contingency tables The author uses a Fisherian approach to categorical data analysis and incorporates numerous examples and real data sets Although he offers S PLUS routines through the Internet readers do not need full knowledge of a statistical software package In this unique text the author chooses methods and an approach that nurtures intuitive thinking He trains his readers to focus not on finding a model that fits the data but on using different models that may lead to meaningful conclusions The book offers some simple innovative techniques not highlighted in other texts that help make the book accessible to a broad interdisciplinary audience A Course in Categorical Data Analysis enables readers to quickly use its offering of tools for drawing scientific medical or real life conclusions from categorical data sets Discrete Data Analysis with R Michael Friendly, David Meyer, 2015-12-16 An Applied Treatment of Modern Graphical Methods for Analyzing Categorical Data Discrete Data Analysis with R Visualization and Modeling Techniques for Categorical and Count Data presents an applied treatment of modern methods for the analysis of categorical data both discrete response data and frequency data It explains how to use graphical meth *Categorical Data Analysis* Keming Yang, 2014-07-16 These four volumes provide a collection of key publications on categorical data analysis carefully put together so that the reader can easily navigate understand and put in context the major concepts and methods of analysing categorical data The major work opens with a series of papers that address general issues in CDA and progresses with publications which follow a logical movement from the statistics for analysing a single categorical variable to those for studying the relationships between two and more categorical variables and to categorical variables in some of more advanced methods such as latent class analysis Edited and introduced by a leading voice in the field this collection helpfully includes both theoretical and applied items on its theme in order to help the reader understand the methods and use them in empirical research Volume 1 Basic Concepts and Principles Volume 2 Statistical Methods for Analysing Associations Volume 3 Log Linear and Logistic Regression Models Volume 4 Advanced and Graphical Statistical Methods Applied Categorical Data Analysis and Translational Research Chap T. Le, 2009-12-14 An updated treatment of categorical data analysis in the biomedical sciences that now explores applications to translational research Thoroughly updated with the latest advances in the field Applied Categorical Data Analysis and Translational Research Second Edition maintains the accessible style of its predecessor while also exploring the importance of translational research as it relates to basic scientific findings within clinical practice With its easy to follow style updated coverage of major methodologies and broadened scope of coverage this new edition provides an accessible guide to statistical methods involving categorical data and the steps to their application in problem solving in the biomedical sciences Delving even further into the applied direction this update offers many real world examples from biomedicine epidemiology and public health along with detailed case studies taken straight from modern research in these fields Additional features of the Second Edition include A new chapter on the relationship between translational research and categorical data focusing on design study bioassay and Phase I and Phase II clinical trials A new chapter on categorical data

and diagnostic medicine with coverage of the diagnostic process prevalence surveys the ROC function and ROC curve and important statistical considerations A revised chapter on logistic regression models featuring an updated treatment of simple and multiple regression analysis An added section on quantal bioassays Each chapter features updated and new exercise sets along with numerous graphs that demonstrate the highly visual nature of the topic A related Web site features the book's examples as well as additional data sets that can be worked with using SAS software The only book of its kind to provide balanced coverage of methods for both categorical data and translational research Applied Categorical Data Analysis and Translational Research Second Edition is an excellent book for courses on applied statistics and biostatistics at the upper undergraduate and graduate levels It is also a valuable reference for researchers and practitioners in the biomedical and public health fields

An Introduction to Categorical Data Analysis Alan Agresti, 2018-10-11 A valuable new edition of a standard reference The use of statistical methods for categorical data has increased dramatically particularly for applications in the biomedical and social sciences An Introduction to Categorical Data Analysis Third Edition summarizes these methods and shows readers how to use them using software Readers will find a unified generalized linear models approach that connects logistic regression and loglinear models for discrete data with normal regression for continuous data Adding to the value in the new edition is Illustrations of the use of R software to perform all the analyses in the book A new chapter on alternative methods for categorical data including smoothing and regularization methods such as the lasso classification methods such as linear discriminant analysis and classification trees and cluster analysis New sections in many chapters introducing the Bayesian approach for the methods of that chapter More than 70 analyses of data sets to illustrate application of the methods and about 200 exercises many containing other data sets An appendix showing how to use SAS Stata and SPSS and an appendix with short solutions to most odd numbered exercises Written in an applied nontechnical style this book illustrates the methods using a wide variety of real data including medical clinical trials environmental questions drug use by teenagers horseshoe crab mating basketball shooting correlates of happiness and much more An Introduction to Categorical Data Analysis Third Edition is an invaluable tool for statisticians and biostatisticians as well as methodologists in the social and behavioral sciences medicine and public health marketing education and the biological and agricultural sciences

Categorical Data Analysis and Multilevel Modeling Using R Xing Liu, 2022-02-24 Categorical Data Analysis and Multilevel Modeling Using R provides a practical guide to regression techniques for analyzing binary ordinal nominal and count response variables using the R software Author Xing Liu offers a unified framework for both single level and multilevel modeling of categorical and count response variables with both frequentist and Bayesian approaches Each chapter demonstrates how to conduct the analysis using R how to interpret the models and how to present the results for publication A companion website for this book contains datasets and R commands used in the book for students and solutions for the end of chapter exercises on the instructor site

Categorical Data Analysis Keming Yang, 2014-07-16

These four volumes provide a collection of key publications on categorical data analysis carefully put together so that the reader can easily navigate understand and put in context the major concepts and methods of analysing categorical data The major work opens with a series of papers that address general issues in CDA and progresses with publications which follow a logical movement from the statistics for analysing a single categorical variable to those for studying the relationships between two and more categorical variables and to categorical variables in some of more advanced methods such as latent class analysis Edited and introduced by a leading voice in the field this collection helpfully includes both theoretical and applied items on its theme in order to help the reader understand the methods and use them in empirical research Volume 1 Basic Concepts and Principles Volume 2 Statistical Methods for Analysing Associations Volume 3 Log Linear and Logistic Regression Models Volume 4 Advanced and Graphical Statistical Methods

Analysis of Ordinal Categorical Data Alan Agresti, 1984-05-23 Basic results for cross classification tables Cross classification tables Chi squared statistics Partitions for chi squared Odds ratios Measuring association Loglinear models for two dimensions Notes Complements Associations in multidimensional tables Partial association Association and interaction structure Loglinear models for three dimensions Loglinear models for higher dimensions Notes Complements Data analysis using loglinear models Fitting models for three variables Comparison of models Model building Iterative proportional fitting Loglinear models and ordinal information Notes Complements Loglinear models for ordinal variables Loglinear model for ordinal ordinal tables Loglinear model for ordinal nominal tables Ordinal loglinear models for higher dimensions Interaction models Notes Complement Logit models Logistic regression Logit models and loglinear models Logits for an ordinal response Notes Complements Logit models for an ordinal response Logit model for ordinal ordinal tables Logit model for ordinal nominal tables Ordinal logit models for higher dimensions Notes Complements Other models for ordinal variables Log multiplicative models Global odds ratio models Mean response models Proportional hazards models Other model building approaches Notes Complements Measures of association for ordinal variables Concordance and discordance Ordinal ordinal measures of association Ordinal nominal measures of association Partial association measures Category choice for ordinal variables Notes Complements Inference for ordinal measures of association Testing for association ordinal ordinal tables Testing for association ordinal nominal tables Confidence intervals for measures of association Comparing and pooling measures Testing for partial association Notes Complements Square tables with ordered categories Models for square tables Marginal homogeneity A final example Notes Complements Comparison of ordinal methods Summary of methods and results Comparison of strategies Weighted least squares Maximum likelihood estimation Delta method Computer packages for cross classification tables Chi squared distribution values for various right hand tail probabilities

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