

Categorical data

Unpaired data

Paired data

>2 groups to be compared

2 sets to be compared

Chi-square test

McNemar's chi-square test

Statistical Analysis Of Categorical Data

Erling B. Andersen

Statistical Analysis Of Categorical Data:

The Statistical Analysis of Categorical Data Erling B. Andersen, 2012-12-06 The aim of this book is to give an up to date account of the most commonly used statistical models for categorical data. The emphasis is on the connection between theory and applications to real data sets. The book only covers models for categorical data. Various models for mixed continuous and categorical data are thus excluded. The book is written as a textbook although many methods and results are quite recent. This should imply that the book can be used for a graduate course in categorical data analysis. With this aim in mind chapters 3 to 12 are concluded with a set of exercises. In many cases the data sets are those data sets which were not included in the examples of the book although they at one point in time were regarded as potential candidates for an example. A certain amount of general knowledge of statistical theory is necessary to fully benefit from the book. A summary of the basic statistical concepts deemed necessary prerequisites is given in chapter 2. The mathematical level is only moderately high but the account in chapter 3 of basic properties of exponential families and the parametric multinomial distribution is made as mathematical precise as possible without going into mathematical details and leaving out most proofs.

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/> *Analysis of Categorical Data with R* Christopher R. Bilder, Thomas M. Loughrin, 2024-07-31 *Analysis of Categorical Data with R* Second Edition presents a modern account of categorical data analysis using the R software environment. It covers recent techniques of model building and assessment for binary, multicategory, and count response variables and discusses fundamentals such as odds ratio and probability estimation. The authors give detailed advice and guidelines on which procedures to use and why to use them. The second edition is a substantial update of the first based on the authors' experiences of teaching from the book for nearly a decade. The book is organized as before but with new content throughout and there are two new substantive topics in the advanced topics chapter: group testing and splines. The computing has been completely updated with the emmeans package now integrated into the book. The examples have also been updated, notably to include new examples based on COVID-19 and there are more than 90 new exercises in the book. The solutions manual and teaching videos have also been updated. Features: Requires no prior experience with R and offers an introduction to the essential features and functions of R. Includes numerous examples from medicine, psychology, sports, ecology, and many other areas. Integrates extensive R code and output. Graphically demonstrates many of the features and properties of various analysis methods. Offers a substantial number of exercises in all chapters enabling use as a course text or for self study. Supplemented by a website with data sets, code, and teaching videos. *Analysis of Categorical Data with R* Second Edition is primarily designed for a course on categorical data analysis taught at the advanced undergraduate or graduate level. Such a course could be taught in a statistics or biostatistics

department or within mathematics psychology social science ecology or another quantitative discipline It could also be used by a self learner and would make an ideal reference for a researcher from any discipline where categorical data arise

Introduction to the Statistical Analysis of Categorical Data Erling B. Andersen, 1997-03-20 to the Statistical Analysis of Categorical Data With 16 Figures and 121 Tables Springer Prof Erling B Andersen University of Copenhagen Department of Statistics 6 Studiestrrede DK 14SS Copenhagen Denmark ISBN 978 3 540 62399 1 CataJoging in Publication Data applied for Oie Oeutsche Bibliothek CIP Einheitsaufnahme Andersen Erling B Introduction to the statistical analysis of categorical data analysis with 121 tables I Erling B Andersen Berlin Heidelberg New York Bucelona Buda pest Hong Kong London Milan Paris Santa Clara Singapore Tokyo Springer 1997 ISBN 978 3 540 2399 1 ISBN 978 3 2 59123 5 eBook DOI10 1007 978 3 2 59123 5 This work is subject to copyright All rights are reserved whether the whole or part of the material is concerned specifically the rights of translation reprinting reuse of illustrations recitation broadcasting reproduction on microfilm or in any other way and storage in data banks Duplication of this publication or parts thereof is permitted only under the provisions of the German Copyright Law of September 9 1965 in its current version and permission for use must always be obtained from Springer Verlag Violations are liable for prosecution under the German Copyright Law Springer Verlag Berlin Heidelberg 1997 Originally published by Springer Verlag Berlin Heidelberg New York in 1997 The use of general descriptive names registered names trademarks etc in this publication does not imply even in the absence of a specific statement that such names are exempt from the relevant protective laws and regulations and heretofore free for general use

Statistical Analysis of Longitudinal Categorical Data in the Social and Behavioral Sciences Alexander von Eye, Keith E. Niedermeier, 2014-04-04 A comprehensive resource for analyzing a variety of categorical data this book emphasizes the application of many recent advances of longitudinal categorical statistical methods Each chapter provides basic methodology helpful applications examples using data from all fields of the social sciences computer tutorials and exercises Written for social scientists and students no advanced mathematical training is required Step by step command files are given for both the CDAS and the SPSS software programs **The Analysis of Cross-Classified Categorical Data** Stephen E. Fienberg, 2007-07-30 Until recent years the statistical and computational techniques available for the analysis of cross classified data were quite limited This book presents some of the recent work on the statistical analysis of cross classified data using longlinear models **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

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Maura E. Stokes,Charles S. Davis,Gary G. Koch,2012-07-31 Statisticians and researchers will find this book newly updated for SAS STAT 12 1 to be a useful discussion of categorical data analysis techniques as well as an invaluable aid in applying these methods with SAS

Discrete Data Analysis with R Michael Friendly,David Meyer,2015-12-16 An Applied Treatment of Modern Graphical Methods for Analyzing Categorical DataDiscrete 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 [Statistical Analysis of Categorical Data](#) Chris J. Lloyd,1999-03-29 Accessible up to date coverage of a broad range of modern and traditional methods The ability to understand and analyze categorical or count data is crucial to the success of statisticians in a wide variety of fields including biomedicine ecology the social sciences marketing and many more Statistical Analysis of Categorical Data provides thorough clear up to date explanations of all important methods of categorical data analysis at a level accessible to anyone with a solid undergraduate knowledge of statistics Featuring a liberal use of real world examples as well as a regression based approach familiar to most students this book reviews pertinent statistical theory including advanced topics such as Score statistics and the transformed central limit theorem It presents the distribution theory of Poisson as well as multinomial variables and it points out the connections between them Complete with numerous illustrations and exercises this book covers the full range of topics necessary to develop a well rounded understanding of modern categorical data analysis including Logistic regression and log linear models Exact conditional methods Generalized linear and additive models Smoothing count data with practical implementations in S plus software Thorough description and

analysis of five important computer packages Supported by an ftp site which describes the facilities important to a statistician wanting to analyze and report on categorical data Statistical Analysis of Categorical Data is an excellent resource for students practicing statisticians and researchers with a special interest in count data **Applied Categorical and Count Data Analysis**

Wan Tang,Hua He,Xin M. Tu,2023-04-06 Developed from the authors graduate level biostatistics course Applied Categorical and Count Data Analysis Second Edition explains how to perform the statistical analysis of discrete data including categorical and count outcomes The authors have been teaching categorical data analysis courses at the University of Rochester and Tulane University for more than a decade This book embodies their decade long experience and insight in teaching and applying statistical models for categorical and count data The authors describe the basic ideas underlying each concept model and approach to give readers a good grasp of the fundamentals of the methodology without relying on rigorous mathematical arguments The second edition is a major revision of the first adding much new material It covers classic concepts and popular topics such as contingency tables logistic regression models and Poisson regression models along with modern areas that include models for zero modified count outcomes parametric and semiparametric longitudinal data analysis reliability analysis and methods for dealing with missing values As in the first edition R SAS SPSS and Stata programming codes are provided for all the examples enabling readers to immediately experiment with the data in the examples and even adapt or extend the codes to fit data from their own studies Designed for a one semester course for graduate and senior undergraduate students in biostatistics this self contained text is also suitable as a self learning guide for biomedical and psychosocial researchers It will help readers analyze data with discrete variables in a wide range of biomedical and psychosocial research fields Features Describes the basic ideas underlying each concept and model Includes R SAS SPSS and Stata programming codes for all the examples Features significantly expanded Chapters 4 5 and 8 Chapters 4 6 and 9 in the second edition Expands discussion for subtle issues in longitudinal and clustered data analysis such as time varying covariates and comparison of generalized linear mixed effect models with GEE **Analysis of Ordinal Categorical Data**

Alan Agresti,2012-07-02 Statistical science s first coordinated manual of methods for analyzing ordered categorical data now fully revised and updated continues to present applications and case studies in fields as diverse as sociology public health ecology marketing and pharmacy Analysis of Ordinal Categorical Data Second Edition provides an introduction to basic descriptive and inferential methods for categorical data giving thorough coverage of new developments and recent methods Special emphasis is placed on interpretation and application of methods including an integrated comparison of the available strategies for analyzing ordinal data Practitioners of statistics in government industry particularly pharmaceutical and academia will want this new edition **Analyzing Categorical Data** Jeffrey S. Simonoff,2013-06-05 Categorical data arise often in many fields including biometrics economics management manufacturing marketing psychology and sociology This book provides an introduction to the analysis of such data The coverage is broad using the loglinear Poisson regression

model and logistic binomial regression models as the primary engines for methodology Topics covered include count regression models such as Poisson negative binomial zero inflated and zero truncated models loglinear models for two dimensional and multidimensional contingency tables including for square tables and tables with ordered categories and regression models for two category binary and multiple category target variables such as logistic and proportional odds models All methods are illustrated with analyses of real data examples many from recent subject area journal articles These analyses are highlighted in the text and are more detailed than is typical providing discussion of the context and background of the problem model checking and scientific implications More than 200 exercises are provided many also based on recent subject area literature Data sets and computer code are available at a web site devoted to the text Adopters of this book may request a solutions manual from textbook springer ny com From the reviews Jeff Simonoff s book is at the top of the heap of categorical data analysis textbooks The examples are superb Student reactions in a class I taught from this text were uniformly positive particularly because of the examples and exercises Additional materials related to the book particularly code for S Plus SAS and R useful for analysis of examples can be found at the author s Web site at New York University I liked this book for this reason and recommend it to you for pedagogical purposes Stanley Wasserman The American Statistician August 2006 Vol 60 No 3 The book has various noteworthy features The examples used are from a variety of topics including medicine economics sports mining weather as well as social aspects like needle exchange programs The examples motivate the theory and also illustrate nuances of data analytical procedures The book also incorporates several newer methods for analyzing categorical data including zero inflated Poisson models robust analysis of binomial and poisson models sandwich estimators multinomial smoothing ordinal agreement tables this is definitely a good reference book for any researcher working with categorical data Technometrics May 2004 This guide provides a practical approach to the appropriate analysis of categorical data and would be a suitable purchase for individuals with varying levels of statistical understanding Paediatric and Perinatal Epidemiology 2004 18 This book gives a fresh approach to the topic of categorical data analysis The presentation of the statistical methods exploits the connection to regression modeling with a focus on practical features rather than formal theory There is much to learn from this book Aside from the ordinary materials such as association diagrams Mantel Haenszel estimators or overdispersion the reader will also find some less often presented but interesting and stimulating topics This is an excellent book giving an up to date introduction to the wide field of analyzing categorical data Biometrics September 2004 It is of great help to data analysts practitioners and researchers who deal with categorical data and need to get a necessary insight into the methods of analysis as well as practical guidelines for solving problems International Journal of General Systems August 2004 The author has succeeded in writing a useful and readable textbook combining most of general theory and practice of count data Kwantitatieve Methoden The book especially stresses how to analyze and interpret data In fact the highly detailed multi page descriptions of analysis and interpretation make the

book stand out Mathematical Geology February 2005 Overall this is a competent and detailed text that I would recommend to anyone dealing with the analysis of categorical data Journal of the Royal Statistical Society This important work allows for clear analogies between the well known linear models for Gaussian data and categorical data problems Jeffrey Simonoff's Analyzing Categorical Data provides an introduction to many of the important ideas and methods for understanding counted data and tables of counts Some readers will find Simonoff's style very much to their liking due to reliance on extended real data examples to illuminate ideas I think the extensive examples will appeal to most students Sanford Weisberg SIAM Review Vol 47 4 2005 It is clear that the focus of Simonoff's book is different from other books on categorical data analysis As an introductory textbook the book is comprehensive enough since all basic topics in categorical data analysis are discussed I think Simonoff's book is a valuable addition to the literature because it discusses important models for counts Jeroen K Vermunt Statistics in Medicine Vol 24 2005 The author based this book on his notes for a class with a very diverse pool of students The material is presented in such a way that a very heterogeneous group of students could grasp it All methods are illustrated with analyses of real data examples The author provides a detailed discussion of the context and background of the problem The book is very interesting and can be warmly recommended to people working with categorical data EMS European Mathematical Society Newsletter December 2004 Categorical data arise often in many fields This book provides an introduction to the analysis of such data All methods are illustrated with analyses of real data examples many from recent subject area journal articles These analyses are highlighted in the text and are more detailed than is typical More than 200 exercises are provided including many based on recent subject area literature Data sets and computer code are available at a Web site devoted to this text T Postelnicu Zentralblatt MATH Vol 1028 2003 This book grew out of notes prepared by the author for classes in categorical data analysis The presentation is fresh and compelling to read Regression ideas are used to motivate the modelling presented The book focuses on applying methods to real problems many of these will be novel to readers of statistics texts All chapters end with a section providing references to books or articles for the inquiring reader C M O'Brien Short Book Reviews Vol 23 3 2003 [Categorical Data Analysis by Example](#) Graham J. G. Upton, 2016-10-24 Introduces the key concepts in the analysis of categorical data with illustrative examples and accompanying R code This book is aimed at all those who wish to discover how to analyze categorical data without getting immersed in complicated mathematics and without needing to wade through a large amount of prose It is aimed at researchers with their own data ready to be analyzed and at students who would like an approachable alternative view of the subject Each new topic in categorical data analysis is illustrated with an example that readers can apply to their own sets of data In many cases R code is given and excerpts from the resulting output are presented In the context of log linear models for cross tabulations two specialties of the house have been included the use of cobweb diagrams to get visual information concerning significant interactions and a procedure for detecting outlier category combinations The R code used for these is available and may be

freely adapted In addition this book Uses an example to illustrate each new topic in categorical data Provides a clear explanation of an important subject Is understandable to most readers with minimal statistical and mathematical backgrounds Contains examples that are accompanied by R code and resulting output Includes starred sections that provide more background details for interested readers Categorical Data Analysis by Example is a reference for students in statistics and researchers in other disciplines especially the social sciences who use categorical data This book is also a reference for practitioners in market research medicine and other fields

An Introduction to Categorical Data Analysis Alan Agresti,2018-11-20 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 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

Categorical Data Analysis and Multilevel Modeling Using R

Xing Liu,2022-02-25 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

Lectures on

Categorical Data Analysis Tamás Rudas,2018-03-30 This book offers a relatively self contained presentation of the fundamental results in categorical data analysis which plays a central role among the statistical techniques applied in the social political and behavioral sciences as well as in marketing and medical and biological research The methods applied are mainly aimed at understanding the structure of associations among variables and the effects of other variables on these interactions A great advantage of studying categorical data analysis is that many concepts in statistics become transparent when discussed in a categorical data context and in many places the book takes this opportunity to comment on general principles and methods in statistics addressing not only the how but also the why Assuming minimal background in calculus linear algebra probability theory and statistics the book is designed to be used in upper undergraduate and graduate level courses in the field and in more general statistical methodology courses as well as a self study resource for researchers and professionals The book covers such key issues as higher order interactions among categorical variables the use of the delta method to correctly determine asymptotic standard errors for complex quantities reported in surveys the fundamentals of the main theories of causal analysis based on observational data the usefulness of the odds ratio as a measure of association and a detailed discussion of log linear models including graphical models The book contains over 200 problems many of which may also be used as starting points for undergraduate research projects The material can be used by students toward a variety of goals depending on the degree of theory or application desired

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.

Categorical Data Analysis for the Behavioral and Social Sciences Razia Azen, Cindy M. Walker, 2011-01-07. Featuring a practical approach with numerous examples this book focuses on helping the reader develop a conceptual rather than technical understanding of categorical methods making it a much more accessible text than others on the market. The authors cover common categorical analyses and emphasize specific research questions that can be addressed by each analytic procedure so that readers are able to address the research questions they wish to answer. To achieve this goal the authors Review the theoretical implications and assumptions underlying each of the procedures. Present each concept in general terms and illustrate each with a practical example. Demonstrate the analyses using SPSS and SAS and show the interpretation of the results provided by these programs. A Look Ahead section at the beginning of each chapter provides an overview of the material covered so that the reader knows what to expect. This is followed by one or more research questions that can be addressed using the procedure s covered in the chapter. A theoretical presentation of the material is provided and illustrated using realistic examples from the behavioral and social sciences. To further enhance accessibility the new procedures introduced in the book are explicitly related to analytic procedures covered in earlier statistics courses such as ANOVA and linear regression. Throughout each chapter the authors use practical examples to demonstrate how to obtain and interpret statistical output in both SPSS and SAS. Their emphasis on the relationship between the initial research question the use of the software to carry out the analysis and the interpretation of the output as it relates to the initial research question allows readers to easily apply the material to their own research. The data sets for executing chapter examples using SAS Version 9.1.3 and or IBM SPSS Version 18 are available on a book specific web site. These data sets and syntax allow readers to quickly run the programs and obtain the appropriate output. The book also includes both conceptual and analytic end of chapter exercises to assist instructors and students in evaluating the understanding of the material covered in each chapter. This book covers the most commonly used categorical data analysis procedures. It is written for those without an extensive mathematical background and is ideal for graduate courses in categorical data analysis or cross classified data analysis taught in departments of psychology human development family studies sociology education and business. Researchers in these disciplines interested in applying these procedures to their own research will appreciate this book s accessible approach.

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