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AN INTRODUCTION TO
**CATEGORICAL
DATA ANALYSIS**

THIRD EDITION



ALAN AGRESTI



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Categorical Data Analysis Alan Agresti, 2013-04-08 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

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

Statistical Intervals William Q. Meeker, Gerald J. Hahn, Luis A. Escobar, 2017-04-10 Describes statistical intervals to quantify sampling uncertainty focusing on key application needs and recently developed methodology in an easy to apply format Statistical

intervals provide invaluable tools for quantifying sampling uncertainty The widely hailed first edition published in 1991 described the use and construction of the most important statistical intervals Particular emphasis was given to intervals such as prediction intervals tolerance intervals and confidence intervals on distribution quantiles frequently needed in practice but often neglected in introductory courses Vastly improved computer capabilities over the past 25 years have resulted in an explosion of the tools readily available to analysts This second edition more than double the size of the first adds these new methods in an easy to apply format In addition to extensive updating of the original chapters the second edition includes new chapters on Likelihood based statistical intervals Nonparametric bootstrap intervals Parametric bootstrap and other simulation based intervals An introduction to Bayesian intervals Bayesian intervals for the popular binomial Poisson and normal distributions Statistical intervals for Bayesian hierarchical models Advanced case studies further illustrating the use of the newly described methods New technical appendices provide justification of the methods and pathways to extensions and further applications A webpage directs readers to current readily accessible computer software and other useful information Statistical Intervals A Guide for Practitioners and Researchers Second Edition is an up to date working guide and reference for all who analyze data allowing them to quantify the uncertainty in their results using statistical intervals

Regression Modeling for Linguistic Data Morgan Sonderegger, 2023-06-06 The first comprehensive textbook on regression modeling for linguistic data offers an incisive conceptual overview along with worked examples that teach practical skills for realistic data analysis In the first comprehensive textbook on regression modeling for linguistic data in a frequentist framework Morgan Sonderegger provides graduate students and researchers with an incisive conceptual overview along with worked examples that teach practical skills for realistic data analysis The book features extensive treatment of mixed effects regression models the most widely used statistical method for analyzing linguistic data Sonderegger begins with preliminaries to regression modeling assumptions inferential statistics hypothesis testing power and other errors He then covers regression models for non clustered data linear regression model selection and validation logistic regression and applied topics such as contrast coding and nonlinear effects The last three chapters discuss regression models for clustered data linear and logistic mixed effects models as well as model predictions convergence and model selection The book's focused scope and practical emphasis will equip readers to implement these methods and understand how they are used in current work The only advanced discussion of modeling for linguists Uses R throughout in practical examples using real datasets Extensive treatment of mixed effects regression models Contains detailed clear guidance on reporting models Equal emphasis on observational data and data from controlled experiments Suitable for graduate students and researchers with computational interests across linguistics and cognitive science **An**

Introduction to Categorical Data Analysis Alan Agresti, 2007-03-23 Praise for the First Edition This is a superb text from which to teach categorical data analysis at a variety of levels t his book can be very highly recommended Short Book Reviews

Of great interest to potential readers is the variety of fields that are represented in the examples health care financial government product marketing and sports to name a few *Journal of Quality Technology* Alan Agresti has written another brilliant account of the analysis of categorical data *The Statistician* The use of statistical methods for categorical data is ever increasing in today's world *An Introduction to Categorical Data Analysis Second Edition* provides an applied introduction to the most important methods for analyzing categorical data This new edition summarizes methods that have long played a prominent role in data analysis such as chi squared tests and also places special emphasis on logistic regression and other modeling techniques for univariate and correlated multivariate categorical responses This Second Edition features Two new chapters on the methods for clustered data with an emphasis on generalized estimating equations GEE and random effects models A unified perspective based on generalized linear models An emphasis on logistic regression modeling An appendix that demonstrates the use of SAS r for all methods An entertaining historical perspective on the development of the methods Specialized methods for ordinal data small samples multicategory data and matched pairs More than 100 analyses of real data sets and nearly 300 exercises Written in an applied nontechnical style the book illustrates methods using a wide variety of real data including medical clinical trials drug use by teenagers basketball shooting horseshoe crab mating environmental opinions correlates of happiness and much more *An Introduction to Categorical Data Analysis Second Edition* is an invaluable tool for social behavioral and biomedical scientists as well as researchers in public health marketing education biological and agricultural sciences and industrial quality control *Journal of the American Statistical Association* ,2008 **American Book Publishing Record** ,2007 *Books in Print Supplement* ,2002

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