

Wiley Series in Probability and Statistics

# Foundations of **Linear** and **Generalized** **Linear Models**

Alan Agresti

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# Foundations Of Linear And Generalized Linear Models Wiley Series In Probability And Statistics

**Alan Agresti**



## **Foundations Of Linear And Generalized Linear Models Wiley Series In Probability And Statistics:**

**Foundations of Linear and Generalized Linear Models** Alan Agresti, 2015-01-15 A valuable overview of the most important ideas and results in statistical modeling Written by a highly experienced author Foundations of Linear and Generalized Linear Models is a clear and comprehensive guide to the key concepts and results of linear statistical models The book presents a broad in depth overview of the most commonly used statistical models by discussing the theory underlying the models R software applications and examples with crafted models to elucidate key ideas and promote practical modelbuilding The book begins by illustrating the fundamentals of linear models such as how the model fitting projects the data onto a model vector subspace and how orthogonal decompositions of the data yield information about the effects of explanatory variables Subsequently the book covers the most popular generalized linear models which include binomial and multinomial logistic regression for categorical data and Poisson and negative binomial loglinear models for count data Focusing on the theoretical underpinnings of these models Foundations of Linear and Generalized Linear Models also features An introduction to quasi likelihood methods that require weaker distributional assumptions such as generalized estimating equation methods An overview of linear mixed models and generalized linear mixed models with random effects for clustered correlated data Bayesian modeling and extensions to handle problematic cases such as high dimensional problems Numerous examples that use R software for all text data analyses More than 400 exercises for readers to practice and extend the theory methods and data analysis A supplementary website with datasets for the examples and exercises An invaluable textbook for upper undergraduate and graduate level students in statistics and biostatistics courses Foundations of Linear and Generalized Linear Models is also an excellent reference for practicing statisticians and biostatisticians as well as anyone who is interested in learning about the most important statistical models for analyzing data

**Foundations of Linear and Generalized Linear Models** Alan Agresti, 2015-02-23 A valuable overview of the most important ideas and results in statistical modeling Written by a highly experienced author Foundations of Linear and Generalized Linear Models is a clear and comprehensive guide to the key concepts and results of linear statistical models The book presents a broad in depth overview of the most commonly used statistical models by discussing the theory underlying the models R software applications and examples with crafted models to elucidate key ideas and promote practical modelbuilding The book begins by illustrating the fundamentals of linear models such as how the model fitting projects the data onto a model vector subspace and how orthogonal decompositions of the data yield information about the effects of explanatory variables Subsequently the book covers the most popular generalized linear models which include binomial and multinomial logistic regression for categorical data and Poisson and negative binomial loglinear models for count data Focusing on the theoretical underpinnings of these models Foundations of Linear and Generalized Linear Models also features An introduction to quasi likelihood methods that require weaker distributional assumptions such as generalized estimating equation methods

An overview of linear mixed models and generalized linear mixed models with random effects for clustered correlated data  
 Bayesian modeling and extensions to handle problematic cases such as high dimensional problems Numerous examples that use R software for all text data analyses More than 400 exercises for readers to practice and extend the theory methods and data analysis A supplementary website with datasets for the examples and exercises An invaluable textbook for upper undergraduate and graduate level students in statistics and biostatistics courses Foundations of Linear and Generalized Linear Models is also an excellent reference for practicing statisticians and biostatisticians as well as anyone who is interested in learning about the most important statistical models for analyzing data *Statistical Regression and Classification* Norman Matloff, 2017-09-19 Statistical Regression and Classification From Linear Models to Machine Learning takes an innovative look at the traditional statistical regression course presenting a contemporary treatment in line with today's applications and users The text takes a modern look at regression A thorough treatment of classical linear and generalized linear models supplemented with introductory material on machine learning methods Since classification is the focus of many contemporary applications the book covers this topic in detail especially the multiclass case In view of the voluminous nature of many modern datasets there is a chapter on Big Data Has special Mathematical and Computational Complements sections at ends of chapters and exercises are partitioned into Data Math and Complements problems Instructors can tailor coverage for specific audiences such as majors in Statistics Computer Science or Economics More than 75 examples using real data The book treats classical regression methods in an innovative contemporary manner Though some statistical learning methods are introduced the primary methodology used is linear and generalized linear parametric models covering both the Description and Prediction goals of regression methods The author is just as interested in Description applications of regression such as measuring the gender wage gap in Silicon Valley as in forecasting tomorrow's demand for bike rentals An entire chapter is devoted to measuring such effects including discussion of Simpson's Paradox multiple inference and causation issues Similarly there is an entire chapter of parametric model fit making use of both residual analysis and assessment via nonparametric analysis Norman Matloff is a professor of computer science at the University of California Davis and was a founder of the Statistics Department at that institution His current research focus is on recommender systems and applications of regression methods to small area estimation and bias reduction in observational studies He is on the editorial boards of the Journal of Statistical Computation and the R Journal An award winning teacher he is the author of The Art of R Programming and Parallel Computation in Data Science With Examples in R C and CUDA

Generalized Linear Models and Extensions M. Ataharul Islam, Soma Chowdhury Biswas, 2025-04-30 This book presents a wide range of topics to address the needs of several groups of users of rapidly growing methods of generalized linear models Since the introduction of the idea of generalized linear models GLM in early seventies during the past four decades the modelling of statistical data have experienced a major transformation from linear models based on normality assumption to a

more flexible unified approach of generalized linear models The number of readers and users of generalized linear models have increased manifold In addition the use of generalized linear models has expanded in many new fields of applications where statistical models are being employed at an increasing rate It is important to note here that the learners and users of GLM have a widely varied background in different disciplines Considering these pressing needs this book focuses on i upper undergraduate and graduate level students in need of a thorough understanding about the basic concepts of generalized linear models along with appropriate applications ii researchers and users in need of advanced generalized linear models for analysing bivariate or multivariate data stemming from longitudinal or repeated measures data and iii new challenges to analyse big data where the traditional techniques fail to provide any reasonable modelling strategy In other words this book starts with a thorough background of the generalized linear models for the new learners then provides multivariate extensions to advanced level techniques for researchers and users in various disciplines and finally some innovative modelling strategies are introduced using generalized linear models in the emerging field of big data analytics It provides materials for new learners for users researchers who are in need of more advanced techniques and also strategies for employing linear models in big data analytics Hence techniques of generalized linear models will be presented in the proposed book covering the needs of new learners users of advanced techniques researchers in need of statistical modelling of any data type and users of big data analytics wanting to increase predictive accuracy of classification and regression tree techniques

*Finite Difference Methods. Theory and Applications* Ivan Dimov, István Faragó, Lubin Vulkov, 2019-01-28 This book constitutes the refereed conference proceedings of the 7th International Conference on Finite Difference Methods FDM 2018 held in Lozenetz Bulgaria in June 2018 The 69 revised full papers presented together with 11 invited papers were carefully reviewed and selected from 94 submissions They deal with many modern and new numerical techniques like splitting techniques Green's function method multigrid methods and immersed interface method

*Dynamic Econometrics For Empirical Macroeconomic Modelling* Ragnar Nymoen, 2019-07-09 For Masters and PhD students in Economics In this textbook the duality between the equilibrium concept used in dynamic economic theory and the stationarity of economic variables is explained and used in the presentation of single equations models and system of equations such as VARs recursive models and simultaneous equations models The book also contains chapters on exogeneity in the context of estimation policy analysis and forecasting automatic computer based variable selection and how it can aid in the specification of an empirical macroeconomic model and finally on a common framework for model based economic forecasting

Supplementary materials and notes are available on the publisher's website

**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

**Semantic Computing** Phillip Chen-yu Sheu, 2017-08-23 As the first volume of World Scientific Encyclopedia with Semantic Computing and Robotic Intelligence this volume is designed to lay the foundation for the understanding of the Semantic Computing SC as a core concept to study Robotic Intelligence in the subsequent volumes This volume aims to provide a reference to the development of Semantic Computing in the terms of meaning context and intention It brings together a series of technical notes in average no longer than 10 pages in length each focuses on one topic in Semantic Computing being review article or research paper to explain the fundamental concepts models or algorithms and possible applications of the technology concerned This volume will address three core areas in Semantic Computing

**Linear Models: An Integrated Approach** S Rao Jammalamadaka, Debasis Sengupta, 2003-03-03 Linear Models An Integrated Approach aims to provide a clear and deep understanding of the general linear model using simple statistical ideas Elegant geometric arguments are also invoked as needed and a review of vector spaces and matrices is provided to make the treatment self contained Complex matrix algebraic methods such as those used in the rank deficient case are replaced by statistical proofs that are more transparent and that show the parallels with the simple linear model This book has the following special features

Sensory Processing in Vision and Olfaction - Common Features of Key Players Thor Eysteinnsson, Debra Ann Fadool, Wallace B. Thoreson, 2022-03-09

PROBABILITY AND STATISTICS - Volume I Reinhard Viertl, 2009-06-11 Probability and Statistics theme is a component of Encyclopedia of Mathematical Sciences in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias The Theme with contributions from distinguished experts in the field discusses Probability and Statistics Probability is a standard mathematical concept to describe stochastic uncertainty Probability and Statistics can be considered as the two sides of a coin They consist of methods for modeling

uncertainty and measuring real phenomena Today many important political health and economic decisions are based on statistics This theme is structured in five main topics Probability and Statistics Probability Theory Stochastic Processes and Random Fields Probabilistic Models and Methods Foundations of Statistics which are then expanded into multiple subtopics each as a chapter These three volumes are aimed at the following five major target audiences University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers and NGOs

**Generalized Linear Mixed Models** Charles E. McCulloch, 2003 Wiley Series in Probability and Statistics A modern perspective on mixed models The availability of powerful computing methods in recent decades has thrust linear and nonlinear mixed models into the mainstream of statistical application This volume offers a modern perspective on generalized linear and mixed models presenting a unified and accessible treatment of the newest statistical methods for analyzing correlated nonnormally distributed data As a follow up to Searle's classic Linear Models and Variance Components by Searle Casella and McCulloch this new work progresses from the basic one way classification to generalized linear mixed models A variety of statistical methods are explained and illustrated with an emphasis on maximum likelihood and restricted maximum likelihood An invaluable resource for applied statisticians and industrial practitioners as well as students interested in the latest results Generalized Linear and Mixed Models features A review of the basics of linear models and linear mixed models Descriptions of models for nonnormal data including generalized linear and nonlinear models Analysis and illustration of techniques for a variety of real data sets Information on the accommodation of longitudinal data using these models Coverage of the prediction of realized values of random effects A discussion of the impact of computing issues on mixed models

**Matrices, Statistics and Big Data** S. Ejaz Ahmed, Francisco Carvalho, Simo Puntanen, 2019-08-02 This volume features selected refereed papers on various aspects of statistics matrix theory and its applications to statistics as well as related numerical linear algebra topics and numerical solution methods which are relevant for problems arising in statistics and in big data The contributions were originally presented at the 25th International Workshop on Matrices and Statistics IWMS 2016 held in Funchal Madeira Portugal on June 6-9 2016 The IWMS workshop series brings together statisticians computer scientists data scientists and mathematicians helping them better understand each other's tools and fostering new collaborations at the interface of matrix theory and statistics

*Linear Regression* David J. Olive, 2017-04-18 This text covers both multiple linear regression and some experimental design models The text uses the response plot to visualize the model and to detect outliers does not assume that the error distribution has a known parametric distribution develops prediction intervals that work when the error distribution is unknown suggests bootstrap hypothesis tests that may be useful for inference after variable selection and develops prediction regions and large sample theory for the multivariate linear regression model that has  $m$  response variables A relationship between multivariate prediction regions and confidence regions provides a simple way to bootstrap confidence regions These confidence regions often provide a practical method for

testing hypotheses There is also a chapter on generalized linear models and generalized additive models There are many R functions to produce response and residual plots to simulate prediction intervals and hypothesis tests to detect outliers and to choose response transformations for multiple linear regression or experimental design models This text is for graduates and undergraduates with a strong mathematical background The prerequisites for this text are linear algebra and a calculus based course in statistics

*Advanced Statistics for the Behavioral Sciences* Jonathon D. Brown, 2019-04-30 This book demonstrates the importance of computer generated statistical analyses in behavioral science research particularly those using the R software environment Statistical methods are being increasingly developed and refined by computer scientists with expertise in writing efficient and elegant computer code Unfortunately many researchers lack this programming background leaving them to accept on faith the black box output that emerges from the sophisticated statistical models they frequently use Building on the author's previous volume *Linear Models in Matrix Form* this text bridges the gap between computer science and research application providing easy to follow computer code for many statistical analyses using the R software environment The text opens with a foundational section on linear algebra then covers a variety of advanced topics including robust regression model selection based on bias and efficiency nonlinear models and optimization routines generalized linear models and survival and time series analysis Each section concludes with a presentation of the computer code used to illuminate the analysis as well as pointers to packages in R that can be used for similar analyses and nonstandard cases The accessible code and breadth of topics make this book an ideal tool for graduate students or researchers in the behavioral sciences who are interested in performing advanced statistical analyses without having a sophisticated background in computer science and mathematics

**Encyclopedia of Bioinformatics and Computational Biology**, 2018-08-21 Encyclopedia of Bioinformatics and Computational Biology ABC of Bioinformatics Three Volume Set combines elements of computer science information technology mathematics statistics and biotechnology providing the methodology and in silico solutions to mine biological data and processes The book covers Theory Topics and Applications with a special focus on Integrative omics and Systems Biology The theoretical methodological underpinnings of BCB including phylogeny are covered as are more current areas of focus such as translational bioinformatics cheminformatics and environmental informatics Finally Applications provide guidance for commonly asked questions This major reference work spans basic and cutting edge methodologies authored by leaders in the field providing an invaluable resource for students scientists professionals in research institutes and a broad swath of researchers in biotechnology and the biomedical and pharmaceutical industries Brings together information from computer science information technology mathematics statistics and biotechnology Written and reviewed by leading experts in the field providing a unique and authoritative resource Focuses on the main theoretical and methodological concepts before expanding on specific topics and applications Includes interactive images multimedia tools and crosslinking to further resources and databases

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International Conference on Communication, Electronics and Automation Engineering George Yang, 2012-08-14 This book is a collection of selected papers from the 2011 International Conference on Communications Electronics and Automation Engineering held in Xi'an, China, August 23-25, 2012. It presents some of the latest research findings in a broad range of interdisciplinary fields related to communications, electronics, and automation engineering. Specific emphasis is placed on the following topics: automation control, data mining and statistics, simulation and mathematical modeling, human factors and cognitive engineering, web technology optimization and algorithm, and network communications. The prime objective of the book is to familiarize the readers with cutting edge developments in the research of electronics and automation engineering with a variety of applications. Hopefully, the book can help researchers to identify research trends in many areas, to learn the new methods and tools, and to spark innovative ideas.

Stochastic Processes and Functional Analysis Randall J. Swift, Alan Krinik, Jennifer M. Switkes, Jason H. Park, 2021-11-22 This volume contains the proceedings of the AMS Special Session on Celebrating M. M. Rao's Many Mathematical Contributions as he Turns 90 Years Old, held from November 9-10, 2019, at the University of California, Riverside, California. The articles show the effectiveness of abstract analysis for solving fundamental problems of stochastic theory, specifically the use of functional analytic methods for elucidating stochastic processes and their applications. The volume also includes a biography of M. M. Rao and the list of his publications.

*Rank-Based Methods for Shrinkage and Selection* A. K. Md. Ehsanes Saleh, Mohammad Arashi, Resve A. Saleh, Mina Norouzirad, 2022-04-12 Rank Based Methods for Shrinkage and Selection: A practical and hands on guide to the theory and methodology of statistical estimation based on rank. Robust statistics is an important field in contemporary mathematics and applied statistical methods. Rank Based Methods for Shrinkage and Selection: With Application to Machine Learning describes techniques to produce higher quality data analysis in shrinkage and subset selection to obtain parsimonious models with outlier free prediction. This book is intended for statisticians, economists, biostatisticians, data scientists, and graduate students. Rank Based Methods for Shrinkage and Selection elaborates on rank based theory and application in machine learning to robustify the least squares methodology. It also includes Development of rank theory and application of shrinkage and selection Methodology for robust data science using penalized rank estimators. Theory and methods of penalized rank dispersion for ridge, LASSO and Enet. Topics include Liu regression, high dimension and AR(p). Novel rank based logistic regression and neural networks. Problem sets include R code to demonstrate its use in machine learning.

**Theory of Preliminary Test and Stein-Type Estimation with Applications** A. K. Md. Ehsanes Saleh, 2006-04-20 Theory of Preliminary Test and Stein Type Estimation with Applications provides a comprehensive account of the theory and methods of estimation in a variety of standard models used in applied statistical inference. It is an in depth introduction to the estimation theory for graduate students, practitioners, and researchers in various fields such as statistics, engineering, social sciences, and medical sciences. Coverage of the material is designed as a first step in improving the estimates before applying full Bayesian methodology while problems at the end of

each chapter enlarge the scope of the applications This book contains clear and detailed coverage of basic terminology related to various topics including Simple linear model ANOVA parallelism model multiple regression model with non stochastic and stochastic constraints regression with autocorrelated errors ridge regression and multivariate and discrete data models Normal non normal and nonparametric theory of estimation Bayes and empirical Bayes methods R estimation and U statistics Confidence set estimation

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