

**Statistics for Biology  
and Health**

**Heping Zhang  
Burton Singer**

**Recursive  
Partitioning in  
the Health  
Sciences**



**Springer**

# Recursive Partitioning In The Health Sciences

**Manfred Schwaiger, Otto Opitz**



## **Recursive Partitioning In The Health Sciences:**

**Recursive Partitioning in the Health Sciences** Heping Zhang,Burton Singer,2014-01-15      [Recursive Partitioning in the Health Sciences](#) Heping Zhang,Burton H. Singer,2013-03-14 Multiple complex pathways characterized by interrelated events and conditions represent routes to many illnesses diseases and ultimately death Although there are substantial data and plausibility arguments supporting many conditions as contributory components of pathways to illness and disease end points we have historically lacked an effective methodology for identifying the structure of the full pathways Regression methods with strong linearity assumptions and data based constraints on the extent and order of interaction terms have traditionally been the strategies of choice for relating outcomes to potentially complex explanatory pathways However nonlinear relationships among candidate explanatory variables are a generic feature that must be dealt with in any characterization of how health outcomes come about Thus the purpose of this book is to demonstrate the effectiveness of a relatively recently developed methodology recursive partitioning as a response to this challenge We also compare and contrast what is learned via recursive partitioning with results obtained on the same data sets using more traditional methods This serves to highlight exactly where and for what kinds of questions recursive partitioning based strategies have a decisive advantage over classical regression techniques This book is suitable for three broad groups of readers 1 biomedical researchers clinicians public health practitioners including epidemiologists health service researchers environmental policy advisers 2 consulting statisticians who can use the recursive partitioning technique as a guide in providing effective and insightful solutions to clients problems and 3 statisticians interested in methodological and theoretical issues      [Recursive Partitioning in the Health Sciences](#) Heping Zhang,Burton Singer,1999-03-30 A demonstration of the recursive partitioning methodology and its effectiveness as a response to the challenge of analysing and interpreting multiple complex pathways to many illnesses diseases and ultimately death For comparison purposes standard regression methods are presented briefly and then applied in the examples This book is suitable for three broad groups of readers biomedical researchers clinicians public health practitioners including epidemiologists health service researchers and environmental policy advisers consulting statisticians who can use the recursive partitioning technique as a guide in providing effective and insightful solutions to clients problems and statisticians interested in methodological and theoretical issues The book provides an up to date summary of the methodological and theoretical underpinnings of recursive partitioning as well as a host of unsolved problems the solutions of which would advance the rigorous underpinnings of statistics in general      [The Oxford Handbook of Integrative Health Science](#) Carol D. Ryff,Robert F. Krueger,2018-10-03 Most health research to date has been pursued within the confines of scientific disciplines that are guided by their own targeted questions and research strategies Although useful such inquiries are inherently limited in advancing understanding the interplay of wide ranging factors that shape human health The Oxford Handbook of Integrative Health Science embraces an integrative approach that seeks to put

together sociodemographic factors age gender race socioeconomic status known to contour rates of morbidity and mortality with psychosocial factors emotion cognition personality well being social connections behavioral factors health practices and stress exposures caregiving responsibilities divorce discrimination also known to influence health A further overarching theme is to explicate the biological pathways through which these various effects occur The biopsychosocial leitmotif that inspires this approach demands new kinds of studies wherein wide ranging assessments across different domains are assembled on large population samples The MIDUS Midlife in the U S national longitudinal study exemplifies such an integrative study and all findings presented in this collection draw on MIDUS The way the study evolved via collaboration of scientists working across disciplinary lines and its enthusiastic reception from the scientific community are all part of the larger story told Embedded within such tales are important advances in the identification of key protective or vulnerability factors these pave the way for practice and policy initiatives seeking to improve the nation s health

*Mortality in an International Perspective* Jon Anson, Marc Luy, 2014-03-24 This volume presents a state of the art coverage of the measurement and evolution of mortality over time It describes in great detail the changes in the cause patterns of mortality the changes in mortality patterns at different ages and specific analyses of mortality in particular countries Derived from a meeting of the European Working Group on Health Morbidity and Mortality held at the Vienna Institute of Demography September 2011 it presents a cross section of the work and concerns of mortality researchers across Europe ranging from London and Madrid in the west to Moscow in the east with a few additions from further afield Although most of the papers focus on a particular population the range of the papers is broad taken together they present an inter disciplinary cross section of this multi faceted field Coverage includes estimating life expectancy in small areas with an application to recent changes in US counties socioeconomic determinants of mortality in Europe using the latest available data and short term forecasts predicting mortality from profiles of biological risk and performance measures of functioning infant mortality measurement and rate of progress on international commitment using evidence from Argentina avoidable factors contributing to maternal deaths in Turkey changes in mortality at older ages the case of Spain 1975 2006 variable scales of avoidable mortality within the Russian population long term mortality decline in East Asia and much more Perspectives in Mortality Research will serve as a valuable resource for professionals and students in sociology demography public health and personal finance

Survival trees - a new method in innovation theory: A successful introduction of a method commonly used in survival analysis into the field of innovation diffusion theory Burkhard Freiherr von Wangenheim, 2013-06-01 This book deals with survival trees and their application to the analysis and prediction of innovation diffusion processes Three major contributions of the book are noteworthy Firstly the author presents a very comprehensive accurate and accessible overview of the current research activities on survival trees This is particularly important because due to the novelty of the method no universally accepted best approach exists yet many technical details of the method are still subject to ongoing

research and debate By providing an overview of the current state of research the author identifies the different approaches that have been proposed for splitting nodes pruning and final tree selection providing guidance for the choice of an appropriate approach to the applied part of the text Secondly the overview of statistical packages that are available for survival tree analyses and the discussion of their respective merits and limitations has a high practical value and is unique within its category Thirdly the applied part of the text successfully demonstrates the usefulness of the survival tree method to identify clusters with significant differences in expected adoption times thus providing a rigorous and easily interpretable analysis of early and late adopter groups In the discussion section the author further points out how the survival tree method deals with censored observations

**Using Classification and Regression Trees** Xin Ma, 2018-04-01 Classification and regression trees CART is one of the several contemporary statistical techniques with good promise for research in many academic fields There are very few books on CART especially on applied CART This book as a good practical primer with a focus on applications introduces the relatively new statistical technique of CART as a powerful analytical tool The easy to understand non technical language and illustrative graphs tables as well as the use of the popular statistical software program SPSS appeal to readers without strong statistical background This book helps readers understand the foundation the operation and the interpretation of CART analysis thus becoming knowledgeable consumers and skillful users of CART The chapter on advanced CART procedures not yet well discussed in the literature allows readers to effectively seek further empowerment of their research designs by extending the analytical power of CART to a whole new level This highly practical book is specifically written for academic researchers data analysts and graduate students in many disciplines such as economics social sciences medical sciences and sport sciences who do not have strong statistical background but still strive to take full advantage of CART as a powerful analytical tool for research in their fields

**Handbook of Statistics in Clinical Oncology, Third Edition** John Crowley, Antje Hoering, 2012-03-26 Many new challenges have arisen in the area of oncology clinical trials New cancer therapies are often based on cytostatic or targeted agents which pose new challenges in the design and analysis of all phases of trials The literature on adaptive trial designs and early stopping has been exploding Inclusion of high dimensional data and imaging techniques have become common practice and statistical methods on how to analyse such data have been refined in this area A compilation of statistical topics relevant to these new advances in cancer research this third edition of Handbook of Statistics in Clinical Oncology focuses on the design and analysis of oncology clinical trials and translational research Addressing the many challenges that have arisen since the publication of its predecessor this third edition covers the newest developments involved in the design and analysis of cancer clinical trials incorporating updates to all four parts Phase I trials Updated recommendations regarding the standard 3 3 and continual reassessment approaches along with new chapters on phase 0 trials and phase I trial design for targeted agents Phase II trials Updates to current experience in single arm and randomized phase II trial designs New chapters include phase II

designs with multiple strata and phase II/III designs Phase III trials Many new chapters include interim analyses and early stopping considerations phase III trial designs for targeted agents and for testing the ability of markers adaptive trial designs cure rate survival models statistical methods of imaging as well as a thorough review of software for the design and analysis of clinical trials Exploratory and high dimensional data analyses All chapters in this part have been thoroughly updated since the last edition New chapters address methods for analyzing SNP data and for developing a score based on gene expression data In addition chapters on risk calculators and forensic bioinformatics have been added Accessible to statisticians and oncologists interested in clinical trial methodology the book is a single source collection of up to date statistical approaches to research in clinical oncology      *Advanced Medical Statistics (2nd Edition)* Ying Lu, Ji-qian Fang, Lu Tian, Hua

Jin, 2015-06-29 The book aims to provide both comprehensive reviews of the classical methods and an introduction to new developments in medical statistics The topics range from meta analysis clinical trial design causal inference personalized medicine to machine learning and next generation sequence analysis Since the publication of the first edition there have been tremendous advances in biostatistics and bioinformatics The new edition tries to cover as many important emerging areas and reflect as much progress as possible Many distinguished scholars who greatly advanced their research areas in statistical methodology as well as practical applications also have revised several chapters with relevant updates and written new ones from scratch The new edition has been divided into four sections including Statistical Methods in Medicine and Epidemiology Statistical Methods in Clinical Trials Statistical Genetics and General Methods To reflect the rise of modern statistical genetics as one of the most fertile research areas since the publication of the first edition the brand new section on Statistical Genetics includes entirely new chapters reflecting the state of the art in the field Although tightly related all the book chapters are self contained and can be read independently The book chapters intend to provide a convenient launch pad for readers interested in learning a specific topic applying the related statistical methods in their scientific research and seeking the newest references for in depth research      **Contemporary Issues in Exploratory Data Mining in the**

**Behavioral Sciences** John J. McArdle, Gilbert Ritschard, 2013-08-15 This book reviews the latest techniques in exploratory data mining EDM for the analysis of data in the social and behavioral sciences to help researchers assess the predictive value of different combinations of variables in large data sets Methodological findings and conceptual models that explain reliable EDM techniques for predicting and understanding various risk mechanisms are integrated throughout Numerous examples illustrate the use of these techniques in practice Contributors provide insight through hands on experiences with their own use of EDM techniques in various settings Readers are also introduced to the most popular EDM software programs A related website at <http://mephisto.unige.ch/pub/edm> book supplement offers color versions of the book's figures a supplemental paper to chapter 3 and R commands for some chapters The results of EDM analyses can be perilous they are often taken as predictions with little regard for cross validating the results This carelessness can be catastrophic in terms of

money lost or patients misdiagnosed This book addresses these concerns and advocates for the development of checks and balances for EDM analyses Both the promises and the perils of EDM are addressed Editors McArdle and Ritschard taught the Exploratory Data Mining Advanced Training Institute of the American Psychological Association APA All contributors are top researchers from the US and Europe Organized into two parts methodology and applications the techniques covered include decision regression and SEM tree models growth mixture modeling and time based categorical sequential analysis Some of the applications of EDM and the corresponding data explored include selection to college based on risky prior academic profiles the decline of cognitive abilities in older persons global perceptions of stress in adulthood predicting mortality from demographics and cognitive abilities risk factors during pregnancy and the impact on neonatal development Intended as a reference for researchers methodologists and advanced students in the social and behavioral sciences including psychology sociology business econometrics and medicine interested in learning to apply the latest exploratory data mining techniques Prerequisites include a basic class in statistics

**Discourse Analysis as a Tool for Understanding Gender Identity, Representation, and Equality** Mahtab, Nazmunnessa, Parker, Sara, Kabir, Farah, Haque, Tania, Sabur, Aditi, Sowad, Abu Saleh Mohammad, 2016-06-01 Today gender and gender identity is at the forefront of discussion as the plight of women around the world and issues of gender equality and human rights have become an international concern for politicians government agencies social activists and the general public Discourse Analysis as a Tool for Understanding Gender Identity Representation and Equality provides a thorough analysis of what language use and linguistic expression can teach us about gender identity in addition to current discussions on topics related to women's rights and gender inequality Focusing on issues related to women in developing countries workplace inequalities and social freedom this publication is an essential reference source for researchers graduate level students and theorists in the fields of sociology women's studies economics and government

**Discrimination and Diversity: Concepts, Methodologies, Tools, and Applications** Management Association, Information Resources, 2017-05-17 The growing presence of discrimination and isolation has caused negative changes to human interactions With the ubiquity of these practices there is now an increasingly urgent need to close this divide Discrimination and Diversity Concepts Methodologies Tools and Applications provides a critical look at race gender and modern day discrimination and solutions to creating sustainable diversity across numerous contexts and fields Including innovative studies on anti discrimination measures gender discrimination and tolerance this multi volume book is an ideal source for professionals practitioners graduate students academics and researchers working in equality as well as managers and those in leadership roles

**Modeling Techniques in Predictive Analytics with Python and R** Thomas W. Miller, 2014-09-29 Master predictive analytics from start to finish Start with strategy and management Master methods and build models Transform your models into highly effective code in both Python and R This one of a kind book will help you use predictive analytics Python and R to solve real business problems and drive real competitive advantage You ll master

predictive analytics through realistic case studies intuitive data visualizations and up to date code for both Python and R not complex math Step by step you ll walk through defining problems identifying data crafting and optimizing models writing effective Python and R code interpreting results and more Each chapter focuses on one of today s key applications for predictive analytics delivering skills and knowledge to put models to work and maximize their value Thomas W Miller leader of Northwestern University s pioneering program in predictive analytics addresses everything you need to succeed strategy and management methods and models and technology and code If you re new to predictive analytics you ll gain a strong foundation for achieving accurate actionable results If you re already working in the field you ll master powerful new skills If you re familiar with either Python or R you ll discover how these languages complement each other enabling you to do even more All data sets extensive Python and R code and additional examples available for download at <http://www.ftpress.com/miller> Python and R offer immense power in predictive analytics data science and big data This book will help you leverage that power to solve real business problems and drive real competitive advantage Thomas W Miller s unique balanced approach combines business context and quantitative tools illuminating each technique with carefully explained code for the latest versions of Python and R If you re new to predictive analytics Miller gives you a strong foundation for achieving accurate actionable results If you re already a modeler programmer or manager you ll learn crucial skills you don t already have Using Python and R Miller addresses multiple business challenges including segmentation brand positioning product choice modeling pricing research finance sports text analytics sentiment analysis and social network analysis He illuminates the use of cross sectional data time series spatial and spatio temporal data You ll learn why each problem matters what data are relevant and how to explore the data you ve identified Miller guides you through conceptually modeling each data set with words and figures and then modeling it again with realistic code that delivers actionable insights You ll walk through model construction explanatory variable subset selection and validation mastering best practices for improving out of sample predictive performance Miller employs data visualization and statistical graphics to help you explore data present models and evaluate performance Appendices include five complete case studies and a detailed primer on modern data science methods Use Python and R to gain powerful actionable profitable insights about Advertising and promotion Consumer preference and choice Market baskets and related purchases Economic forecasting Operations management Unstructured text and language Customer sentiment Brand and price Sports team performance And much more

Data Analysis and Graphics Using R John Maindonald, W. John Braun, 2010-05-06 Discover what you can do with R Introducing the R system covering standard regression methods then tackling more advanced topics this book guides users through the practical powerful tools that the R system provides The emphasis is on hands on analysis graphical display and interpretation of data The many worked examples from real world research are accompanied by commentary on what is done and why The companion website has code and datasets allowing readers to reproduce all analyses along with solutions to selected exercises and updates



Assuming basic statistical knowledge and some experience with data analysis but not R the book is ideal for research scientists final year undergraduate or graduate level students of applied statistics and practising statisticians It is both for learning and for reference This third edition expands upon topics such as Bayesian inference for regression errors in variables generalized linear mixed models and random forests

### **Exploratory Data Analysis in Empirical Research**

Manfred Schwaiger, Otto Opitz, 2012-12-06 Facing rapidly growing challenges in empirical research this volume presents a selection of new methods and approaches in the field of Exploratory Data Analysis The interested reader will find numerous ideas and examples for cross disciplinary applications of classification and data analysis methods in fields such as data and web mining medicine and biological sciences as well as marketing finance and management sciences

### **Biosocial Surveys**

National Research Council, Division of Behavioral and Social Sciences and Education, Committee on Population, Committee on Advances in Collecting and Utilizing Biological Indicators and Genetic Information in Social Science Surveys, 2008-01-06

Biosocial Surveys analyzes the latest research on the increasing number of multipurpose household surveys that collect biological data along with the more familiar interviewer respondent information This book serves as a follow up to the 2003 volume Cells and Surveys Should Biological Measures Be Included in Social Science Research and asks these questions What have the social sciences especially demography learned from those efforts and the greater interdisciplinary communication that has resulted from them Which biological or genetic information has proven most useful to researchers How can better models be developed to help integrate biological and social science information in ways that can broaden scientific understanding This volume contains a collection of 17 papers by distinguished experts in demography biology economics epidemiology and survey methodology It is an invaluable sourcebook for social and behavioral science researchers who are working with biosocial data

### *Modeling Infectious Disease Parameters Based on Serological and Social Contact Data*

Niel Hens, Ziv Shkedy, Marc Aerts, Christel Faes, Pierre Van Damme, Philippe Beutels, 2012-10-24 Mathematical epidemiology of infectious diseases usually involves describing the flow of individuals between mutually exclusive infection states One of the key parameters describing the transition from the susceptible to the infected class is the hazard of infection often referred to as the force of infection The force of infection reflects the degree of contact with potential for transmission between infected and susceptible individuals The mathematical relation between the force of infection and effective contact patterns is generally assumed to be subjected to the mass action principle which yields the necessary information to estimate the basic reproduction number another key parameter in infectious disease epidemiology It is within this context that the Center for Statistics CenStat I Biostat Hasselt University and the Centre for the Evaluation of Vaccination and the Centre for Health Economic Research and Modelling Infectious Diseases CEV CHERMID Vaccine and Infectious Disease Institute University of Antwerp have collaborated over the past 15 years This book demonstrates the past and current research activities of these institutes and can be considered to be a milestone in this collaboration This book is focused on the application of modern

statistical methods and models to estimate infectious disease parameters We want to provide the readers with software guidance such as R packages and with data as far as they can be made publicly available      *Encyclopedia of Biopharmaceutical Statistics - Four Volume Set* Shein-Chung Chow,2018-09-03 Since the publication of the first edition in 2000 there has been an explosive growth of literature in biopharmaceutical research and development of new medicines This encyclopedia 1 provides a comprehensive and unified presentation of designs and analyses used at different stages of the drug development process 2 gives a well balanced summary of current regulatory requirements and 3 describes recently developed statistical methods in the pharmaceutical sciences Features of the Fourth Edition 1 78 new and revised entries have been added for a total of 308 chapters and a fourth volume has been added to encompass the increased number of chapters 2 Revised and updated entries reflect changes and recent developments in regulatory requirements for the drug review approval process and statistical designs and methodologies 3 Additional topics include multiple stage adaptive trial design in clinical research translational medicine design and analysis of biosimilar drug development big data analytics and real world evidence for clinical research and development 4 A table of contents organized by stages of biopharmaceutical development provides easy access to relevant topics About the Editor Shein Chung Chow Ph D is currently an Associate Director Office of Biostatistics U S Food and Drug Administration FDA Dr Chow is an Adjunct Professor at Duke University School of Medicine as well as Adjunct Professor at Duke NUS Singapore and North Carolina State University Dr Chow is the Editor in Chief of the Journal of Biopharmaceutical Statistics and the Chapman Hall CRC Biostatistics Book Series and the author of 28 books and over 300 methodology papers He was elected Fellow of the American Statistical Association in 1995

**Modeling Techniques in Predictive Analytics** Thomas W. Miller,2015 Now fully updated this uniquely accessible book will help you use predictive analytics to solve real business problems and drive real competitive advantage If you re new to the discipline it will give you the strong foundation you need to get accurate actionable results If you re already a modeler programmer or manager it will teach you crucial skills you don t yet have This guide illuminates the discipline through realistic vignettes and intuitive data visualizations not complex math Thomas W Miller leader of Northwestern University s pioneering program in predictive analytics guides you through defining problems identifying data crafting and optimizing models writing effective R code interpreting results and more Every chapter focuses on one of today s key applications for predictive analytics delivering skills and knowledge to put models to work and maximize their value Reflecting extensive student and instructor feedback this edition adds five classroom tested case studies updates all code for new versions of R explains code behavior more clearly and completely and covers modern data science methods even more effectively      *ICT for Health Science Research* A. Shabo (Shvo),I. Madsen,H.-U. Prokosch,2019-04-17 Information and Communications Technology ICT is used in healthcare and health science research in application domains such as clinical trials and the development of drug and medical devices as well as in translational medicine with the aim of improving prevention diagnosis

and interventions in health and care This book presents accepted papers from the 2019 European Federation of Medical Informatics conference EFMI STC 2019 held in Hanover Germany from 7-10 April 2019 More than 90 submissions were received from which after review the Scientific Program Committee SPC accepted 50 full papers to be included in this volume of proceedings In addition 16 poster presentations were accepted This year ICT for Health Science Research was selected as the focus topic and the conference also honors Prof Peter Leo Reichertz 1930-1987 one of the founding fathers of ICT healthcare and an originator of the term Medical Informatics The conference focuses on recent research data privacy interoperability data driven decision support mobile data capture and ICT for clinical trials The book will be of interest to all healthcare researchers and practitioners whose work involves the use of ICT

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