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Age Period Cohort Analysis New Models Methods And
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**Dankmar Böhning, Peter G.M. van der
Heijden, John Bunge**



Age Period Cohort Analysis New Models Methods And Empirical Applications Chapman Hallcrc Interdisciplinary Statistics:

Age-Period-Cohort Analysis Yang Yang, Kenneth C. Land, 2013-02-25 *Age Period Cohort Analysis New Models Methods and Empirical Applications* is based on a decade of the authors collaborative work in age period cohort APC analysis Within a single consistent HAPC GLMM statistical modeling framework the authors synthesize APC models and methods for three research designs age by time period tables of population rates or proportions repeated cross section sample surveys and accelerated longitudinal panel studies The authors show how the empirical application of the models to various problems leads to many fascinating findings on how outcome variables develop along the age period and cohort dimensions The book makes two essential contributions to quantitative studies of time related change Through the introduction of the GLMM framework it shows how innovative estimation methods and new model specifications can be used to tackle the model identification problem that has hampered the development and empirical application of APC analysis The book also addresses the major criticism against APC analysis by explaining the use of new models within the GLMM framework to uncover mechanisms underlying age patterns and temporal trends Encompassing both methodological expositions and empirical studies this book explores the ways in which statistical models methods and research designs can be used to open new possibilities for APC analysis It compares new and existing models and methods and provides useful guidelines on how to conduct APC analysis For empirical illustrations the text incorporates examples from a variety of disciplines such as sociology demography and epidemiology Along with details on empirical analyses software and programs to estimate the models are available on the book s web page

Age-Period-Cohort Analysis Yang Yang, Kenneth C. Land, 2016-04-19 This book explores the ways in which statistical models methods and research designs can be used to open new possibilities for APC analysis Within a single consistent HAPC GLMM statistical modeling framework the authors synthesize APC models and methods for three research designs age by time period tables of population rates or proportions repeated cross section sample surveys and accelerated longitudinal panel studies They show how the empirical application of the models to various problems leads to many fascinating findings on how outcome variables develop along the age period and cohort dimensions

Age-Period-Cohort Analysis Yang Yang, Kenneth Land, 2016 *Age Period Cohort Analysis New Models Methods and Empirical Applications* is based on a decade of the authors collaborative work in age period cohort APC analysis Within a single consistent HAPC GLMM statistical modeling framework the authors synthesize APC models and methods for three research designs age by time period tables of populati

Missing Data Analysis in Practice Trivellore Raghunathan, 2015-10-28 *Missing Data Analysis in Practice* provides practical methods for analyzing missing data along with the heuristic reasoning for understanding the theoretical underpinnings Drawing on his 25 years of experience researching teaching and consulting in quantitative areas the author presents both frequentist and Bayesian perspectives He describes ea

Power Analysis of Trials with Multilevel Data Mirjam Moerbeek, Steven Teerenstra, 2015-07-01 Power Analysis of Trials with Multilevel Data is a valuable reference for anyone who wants to perform power calculations on trials with hierarchical data. It provides a thorough overview of power analysis, familiarizing you with terminology and notation, outlining the key concepts of statistical power and power analysis, and covering all common hierarchical designs. *Cancer Epidemiology in China: What We Have Learnt So Far?* Jianguang Ji, Tianhui Chen, Xiaochen Shu, Hao Liu, 2020-04-13 After several decades of development, the socialist market economy of China is now the world's second largest economy by nominal GDP. China is also the largest economy by purchasing power parity according to the International Monetary Fund. In tandem with the development of the Chinese economy, China's cancer burden is rising rapidly due to an ageing population and the adoption of unhealthy lifestyle behaviours. According to the data from the National Central Cancer Registry (NCCR) of China, the incidence and mortality of cancer have been increasing rapidly in China. In recent years, cancer has been the leading cause of death among city residents and the second cause of death among rural residents, which has become a stark public health issue in China. According to the NCCR, an estimated 4.29 million new incident cases (12 thousand per day) and 2.81 million death cases (7.5 thousand per day) would occur in 2015 in China. This corresponds to the age-standardized incidence rate (ASIR) of 201.1 per 100,000 and age-standardized mortality rate (ASMR) of 126.9 per 100,000, respectively. Due to the geographical and ethnical disparities in living habits and healthcare level, the cancer spectrum differs between different regions and ethnical groups in China. According to the estimation from IARC, the incidence of nasopharyngeal carcinoma and liver cancer is the world's highest in specific regions of China. The incidence of some cancer types in Chinese urban areas, such as colorectal, prostate, kidney, and bladder cancers, is similar to that in developed countries or regions where the incidence of cancer is highly associated with obesity and westernised lifestyles. Nevertheless, the incidence of some common cancer types in rural areas, including oesophageal, stomach, liver, and cervical cancers, shares similarity with less developed countries or regions in the world where cancers are associated with chronic infectious agents due to poverty. In addition, the mortality rate is higher in rural areas, which suggests a poorer cancer prognosis due to late diagnosis and/or unsatisfying clinical treatment. The distinct cancer patterns of different regions and/or ethnic groups indicate a need for precise cancer prevention and control plans tailored for different geographical regions and/or ethnic groups. The overarching goal of the proposed *Frontiers in Oncology Research Topic* is to present current perspectives on cancer epidemiology in Chinese characteristics and provide current knowledge of cancer burden, as well as cancer mortality, to academic investigators, clinicians, and stakeholders from the translational clinical and public health communities. *Statistical Analysis of Questionnaires* Francesco Bartolucci, Silvia Bacci, Michela Gnaldi, 2015-07-23 *Statistical Analysis of Questionnaires: A Unified Approach Based on R and Stata* presents special statistical methods for analyzing data collected by questionnaires. The book takes an applied approach to testing and measurement tasks, mirroring the growing use of statistical methods and software in

education psychology sociology and other fields Spatial Point Patterns Adrian Baddeley,Ege Rubak,Rolf Turner,2015-11-11 Modern Statistical Methodology and Software for Analyzing Spatial Point Patterns Spatial Point Patterns Methodology and Applications with R shows scientific researchers and applied statisticians from a wide range of fields how to analyze their spatial point pattern data Making the techniques accessible to non mathematicians the authors draw on th

Analysis of Capture-Recapture Data Rachel S. McCrea,Byron J. T. Morgan,2014-08-01 An important first step in studying the demography of wild animals is to identify the animals uniquely through applying markings such as rings tags and bands Once the animals are encountered again researchers can study different forms of capture recapture data to estimate features such as the mortality and size of the populations Capture recapture methods are also used in other areas including epidemiology and sociology With an emphasis on ecology Analysis of Capture Recapture Data covers many modern developments of capture recapture and related models and methods and places them in the historical context of research from the past 100 years The book presents both classical and Bayesian methods A range of real data sets motivates and illustrates the material and many examples illustrate biometry and applied statistics at work In particular the authors demonstrate several of the modeling approaches using one substantial data set from a population of great cormorants The book also discusses which computer programs to use for implementing the models and contains 130 exercises that extend the main material The data sets computer programs and other ancillaries are available at www.capturerecapture.co.uk The book is accessible to advanced undergraduate and higher level students quantitative ecologists and statisticians It helps readers understand model formulation and applications including the technicalities of model diagnostics and checking

Statistical Methods in Psychiatry and Related Fields Ralitza Gueorguieva,2017-11-20 Data collected in psychiatry and related fields are complex because outcomes are rarely directly observed there are multiple correlated repeated measures within individuals there is natural heterogeneity in treatment responses and in other characteristics in the populations Simple statistical methods do not work well with such data More advanced statistical methods capture the data complexity better but are difficult to apply appropriately and correctly by investigators who do not have advanced training in statistics This book presents at a non technical level several approaches for the analysis of correlated data mixed models for continuous and categorical outcomes nonparametric methods for repeated measures and growth mixture models for heterogeneous trajectories over time Separate chapters are devoted to techniques for multiple comparison correction analysis in the presence of missing data adjustment for covariates assessment of mediator and moderator effects study design and sample size considerations The focus is on the assumptions of each method applicability and interpretation rather than on technical details Features Provides an overview of intermediate to advanced statistical methods applied to psychiatry Takes a non technical approach with mathematical details kept to a minimum Includes lots of detailed examples from published studies in psychiatry and related fields Software programs data sets and output are available on a supplementary

website The intended audience are applied researchers with minimal knowledge of statistics although the book could also benefit collaborating statisticians The book together with the online materials is a valuable resource aimed at promoting the use of appropriate statistical methods for the analysis of repeated measures data Ralitzia Gueorguieva is a Senior Research Scientist at the Department of Biostatistics Yale School of Public Health She has more than 20 years experience in statistical methodology development and collaborations with psychiatrists and other researchers and is the author of over 130 peer reviewed publications

Applied Directional Statistics Christophe Ley, Thomas Verdebout, 2018-09-03 This book collects important advances in methodology and data analysis for directional statistics It is the companion book of the more theoretical treatment presented in Modern Directional Statistics CRC Press 2017 The field of directional statistics has received a lot of attention due to demands from disciplines such as life sciences or machine learning the availability of massive data sets requiring adapted statistical techniques and technological advances This book covers important progress in bioinformatics biology astrophysics oceanography environmental sciences earth sciences machine learning and social sciences

Capture-Recapture Methods for the Social and Medical Sciences Dankmar Böhning, Peter G.M. van der Heijden, John Bunge, 2017-07-28 Capture recapture methods have been used in biology and ecology for more than 100 years However it is only recently that these methods have become popular in the social and medical sciences to estimate the size of elusive populations such as illegal immigrants illicit drug users or people with a drinking problem Capture Recapture Methods for the Social and Medical Sciences brings together important developments which allow the application of these methods It has contributions from more than 40 researchers and is divided into eight parts including topics such as ratio regression models capture recapture meta analysis extensions of single and multiple source models latent variable models and Bayesian approaches The book is suitable for everyone who is interested in applying capture recapture methods in the social and medical sciences Furthermore it is also of interest to those working with capture recapture methods in biology and ecology as there are some important developments covered in the book that also apply to these classical application areas

Modern Directional Statistics Christophe Ley, Thomas Verdebout, 2017-08-03 Modern Directional Statistics collects important advances in methodology and theory for directional statistics over the last two decades It provides a detailed overview and analysis of recent results that can help both researchers and practitioners Knowledge of multivariate statistics eases the reading but is not mandatory The field of directional statistics has received a lot of attention over the past two decades due to new demands from domains such as life sciences or machine learning to the availability of massive data sets requiring adapted statistical techniques and to technological advances This book covers important progresses in distribution theory high dimensional statistics kernel density estimation efficient inference on directional supports and computational and graphical methods Christophe Ley is professor of mathematical statistics at Ghent University His research interests include semi parametrically efficient inference flexible modeling directional statistics and the study of asymptotic approximations via

Stein's Method His achievements include the Marie Jeanne Laurent Duhamel prize of the Soci t  Fran aise de Statistique and an elected membership at the International Statistical Institute He is associate editor for the journals Computational Statistics Data Analysis and Econometrics and Statistics Thomas Verdebout is professor of mathematical statistics at Universit  libre de Bruxelles ULB His main research interests are semi parametric statistics high dimensional statistics directional statistics and rank based procedures He has won an annual prize of the Belgian Academy of Sciences and is an elected member of the International Statistical Institute He is associate editor for the journals Statistics and Probability Letters and Journal of Multivariate Analysis

Survival Analysis with Interval-Censored Data Kris Bogaerts, Arno t Komarek, Emmanuel Lesaffre, 2017-11-20 Survival Analysis with Interval Censored Data A Practical Approach with Examples in R SAS and BUGS provides the reader with a practical introduction into the analysis of interval censored survival times Although many theoretical developments have appeared in the last fifty years interval censoring is often ignored in practice Many are unaware of the impact of inappropriately dealing with interval censoring In addition the necessary software is at times difficult to trace This book fills in the gap between theory and practice Features Provides an overview of frequentist as well as Bayesian methods Include a focus on practical aspects and applications Extensively illustrates the methods with examples using R SAS and BUGS Full programs are available on a supplementary website The authors Kris Bogaerts is project manager at I BioStat KU Leuven He received his PhD in science statistics at KU Leuven on the analysis of interval censored data He has gained expertise in a great variety of statistical topics with a focus on the design and analysis of clinical trials Arno t Komarek is associate professor of statistics at Charles University Prague His subject area of expertise covers mainly survival analysis with the emphasis on interval censored data and classification based on longitudinal data He is past chair of the Statistical Modelling Society and editor of Statistical Modelling An International Journal Emmanuel Lesaffre is professor of biostatistics at I BioStat KU Leuven His research interests include Bayesian methods longitudinal data analysis statistical modelling analysis of dental data interval censored data misclassification issues and clinical trials He is the founding chair of the Statistical Modelling Society past president of the International Society for Clinical Biostatistics and fellow of ISI and ASA

Bayesian Disease Mapping Andrew B. Lawson, 2018-05-20 Since the publication of the second edition many new Bayesian tools and methods have been developed for space time data analysis the predictive modeling of health outcomes and other spatial biostatistical areas Exploring these new developments Bayesian Disease Mapping Hierarchical Modeling in Spatial Epidemiology Third Edition provides an up to date cohesive account of the full range of Bayesian disease mapping methods and applications In addition to the new material the book also covers more conventional areas such as relative risk estimation clustering spatial survival analysis and longitudinal analysis After an introduction to Bayesian inference computation and model assessment the text focuses on important themes including disease map reconstruction cluster detection regression and ecological analysis putative hazard modeling analysis of multiple scales and

multiple diseases spatial survival and longitudinal studies spatiotemporal methods and map surveillance It shows how Bayesian disease mapping can yield significant insights into georeferenced health data The target audience for this text is public health specialists epidemiologists and biostatisticians who need to work with geo referenced health data

Correspondence Analysis in Practice Michael Greenacre, 2017-01-20 Drawing on the author's 45 years of experience in multivariate analysis Correspondence Analysis in Practice Third Edition shows how the versatile method of correspondence analysis CA can be used for data visualization in a wide variety of situations CA and its variants subset CA multiple CA and joint CA translate two way and multi way tables into more readable graphical forms ideal for applications in the social environmental and health sciences as well as marketing economics linguistics archaeology and more Michael Greenacre is Professor of Statistics at the Universitat Pompeu Fabra Barcelona Spain where he teaches a course amongst others on Data Visualization He has authored and co edited nine books and 80 journal articles and book chapters mostly on correspondence analysis the latest being Visualization and Verbalization of Data in 2015 He has given short courses in fifteen countries to environmental scientists sociologists data scientists and marketing professionals and has specialized in statistics in ecology and social science

Mendelian Randomization Stephen Burgess, Simon G. Thompson, 2015-03-06 Presents the Terminology and Methods of Mendelian Randomization for Epidemiological Studies Mendelian randomization uses genetic instrumental variables to make inferences about causal effects based on observational data It therefore can be a reliable way of assessing the causal nature of risk factors such as biomarkers for a wide range of disease

Age-Period-Cohort Models Robert O'Brien, 2014-08-19 This book presents an introduction to the problems and strategies for modeling age period and cohort APC effects for aggregate level data These strategies include constrained estimation the use of age and or period and or cohort characteristics estimable functions variance decomposition and a new technique called the s constraint approach Emphasizing both the geometry and algebra of several APC approaches the book develops readers understanding of the statistical issues of APC analysis and shows how common methods are related to each other

Age, Period and Cohort Effects Andrew Bell, 2020-11-05 Age Period and Cohort Effects Statistical Analysis and the Identification Problem gives a number of perspectives from top methodologists and applied researchers on the best ways to attempt to answer Age Period Cohort related questions about society Age Period Cohort APC analysis is a fundamental topic for any quantitative social scientist studying individuals over time At the same time it is also one of the most misunderstood and underestimated topics in quantitative methods As such this book is key reference material for researchers wanting to know how to deal with APC issues appropriately in their statistical modelling It deals with the identification problem caused by the collinearity of the three variables considers why some currently used methods are problematic and suggests ideas for what applied researchers interested in APC analysis should do Whilst the perspectives are varied the book provides a unified view of the subject in a reader friendly way that will be accessible to social scientists with a moderate level of quantitative understanding across the

social and health sciences *A Practical Guide to Age-Period-Cohort Analysis* Wenjiang Fu, 2018-04-27 Age Period Cohort analysis has a wide range of applications from chronic disease incidence and mortality data in public health and epidemiology to many social events birth death marriage etc in social sciences and demography and most recently investment healthcare and pension contribution in economics and finance Although APC analysis has been studied for the past 40 years and a lot of methods have been developed the identification problem has been a major hurdle in analyzing APC data where the regression model has multiple estimators leading to indetermination of parameters and temporal trends A Practical Guide to Age Period Cohort Analysis The Identification Problem and Beyond provides practitioners a guide to using APC models as well as offers graduate students and researchers an overview of the current methods for APC analysis while clarifying the confusion of the identification problem by explaining why some methods address the problem well while others do not Features Gives a comprehensive and in depth review of models and methods in APC analysis Provides an in depth explanation of the identification problem and statistical approaches to addressing the problem and clarifying the confusion Utilizes real data sets to illustrate different data issues that have not been addressed in the literature including unequal intervals in age and period groups etc Contains step by step modeling instruction and R programs to demonstrate how to conduct APC analysis and how to conduct prediction for the future Reflects the most recent development in APC modeling and analysis including the intrinsic estimator Wenjiang Fu is a professor of statistics at the University of Houston Professor Fu s research interests include modeling big data applied statistics research in health and human genome studies and analysis of complex economic and social science data

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