

Margins of Error

A STUDY OF RELIABILITY
IN SURVEY MEASUREMENT



DUANE F. ALWIN

Margins Of Error A Study Of Reliability In Survey Measurement

Anco Hundepool, Josep Domingo-Ferrer, Luisa Franconi, Sarah Giessing, Eric Schulte Nordholt, Keith Spicer, Peter-Paul de Wolf

Margins Of Error A Study Of Reliability In Survey Measurement:

Margins of Error Duane F. Alwin, 2007-07-30 Enhance the quality of survey results by recognizing and reducing measurement errors Margins of Error A Study of Reliability in Survey Measurement demonstrates how and how identifying the presence and extent of measurement errors in survey data is essential for improving the overall collection and analysis of the data The author outlines the consequences of ignoring survey measurement errors and also discusses ways to detect and estimate the impact of these errors This book also provides recommendations of improving the quality of survey data Logically organized and clearly written this book Deconstructs the data gathering process into six main elements of the response process question adequacy comprehension accessibility retrieval motivation and communication Provides an exhaustive review of valuable reliability estimation techniques that can be applied to survey data Identifies the types of questions and interviewer practices that are essential to the collection of reliable data Addresses hypotheses regarding which survey questions sources of information and questionnaire formats produce the most reliable data In conjunction with research data gathered on nearly 500 survey measures and the application of an empirical approach grounded in classical measurement theory this book discusses the sources of measurement error and provides the tools necessary for improving survey data collection methods Margins of Error enables statisticians and researchers in the fields of public opinion and survey research to design studies that can detect estimate and reduce measurement errors that may have previously gone undetected This book also serves as a supplemental textbook for both undergraduate and graduate survey methodology courses

Measurement Error in Longitudinal Data Alexandru Cernat, Joseph W. Sakshaug, 2021-03-18 Longitudinal data is essential for understanding how the world around us changes Most theories in the social sciences and elsewhere have a focus on change be it of individuals of countries of organizations or of systems and this is reflected in the myriad of longitudinal data that are being collected using large panel surveys This type of data collection has been made easier in the age of Big Data and with the rise of social media Yet our measurements of the world are often imperfect and longitudinal data is vulnerable to measurement errors which can lead to flawed and misleading conclusions Measurement Error in Longitudinal Data tackles the important issue of how to investigate change in the context of imperfect data It compiles the latest advances in estimating change in the presence of measurement error from several fields and covers the entire process from the best ways of collecting longitudinal data to statistical models to estimate change under uncertainty to examples of researchers applying these methods in the real world This book introduces the essential issues of longitudinal data collection such as memory effects panel conditioning or mere measurement effects the use of administrative data and the collection of multi mode longitudinal data It also presents some of the most important models used in this area including quasi simplex models latent growth models latent Markov chains and equivalence DIF testing Finally the use of vignettes in the context of longitudinal data and estimation methods for multilevel models of change in the presence of measurement error are also

discussed Latent Class Analysis of Survey Error Paul P. Biemer, 2011-03-16 Combining theoretical methodological and practical aspects Latent Class Analysis of Survey Error successfully guides readers through the accurate interpretation of survey results for quality evaluation and improvement This book is a comprehensive resource on the key statistical tools and techniques employed during the modeling and estimation of classification errors featuring a special focus on both latent class analysis LCA techniques and models for categorical data from complex sample surveys Drawing from his extensive experience in the field of survey methodology the author examines early models for survey measurement error and identifies their similarities and differences as well as their strengths and weaknesses Subsequent chapters treat topics related to modeling estimating and reducing errors in surveys including Measurement error modeling for categorical data The Hui Walter model and other methods for two indicators The EM algorithm and its role in latent class model parameter estimation Latent class models for three or more indicators Techniques for interpretation of model parameter estimates Advanced topics in LCA including sparse data boundary values unidentifiability and local maxima Special considerations for analyzing data from clustered and unequal probability samples with nonresponse The current state of LCA and MLCA multilevel latent class analysis and an insightful discussion on areas for further research Throughout the book more than 100 real world examples describe the presented methods in detail and readers are guided through the use of IEM software to replicate the presented analyses Appendices supply a primer on categorical data analysis and a related Web site houses the IEM software Extensively class tested to ensure an accessible presentation Latent Class Analysis of Survey Error is an excellent book for courses on measurement error and survey methodology at the graduate level The book also serves as a valuable reference for researchers and practitioners working in business government and the social sciences who develop implement or evaluate surveys

Survey Measurements Uwe Engel, 2015-05-11 Wissenschaftliche Umfragen können keine aussagekräftigen Ergebnisse liefern wenn ihre Datenqualität durch fehlende oder verfälschte Antworten beeinträchtigt wird Eine Herausforderung der Sozialforschung besteht darin solche Fehlerquellen zu erkennen und zu kontrollieren Der Band präsentiert Erkenntnisse und Methoden zur Behandlung von Unit Nonresponse Missing Data und verschiedene Arten von Messfehlern im Kontext von Web und Mixed Mode Panel Mobile Web und Faceto Face Befragungen *The SAGE Handbook of Survey Methodology* Christof Wolf, Dominique Joye, Tom W Smith, Yang-chih Fu, 2016-07-11 Survey Methodology is becoming a more structured field of research deserving of more and more academic attention The SAGE Handbook of Survey Methodology explores both the increasingly scientific endeavour of surveys and their growing complexity as different data collection modes and information sources are combined The handbook takes a global approach with a team of international experts looking at local and national specificities as well as problems of cross national comparative survey research The chapters are organized into seven major sections each of which represents a stage in the survey life cycle Surveys and Societies Planning a Survey Measurement Sampling Data Collection Preparing Data for Use Assessing and Improving Data

Quality The SAGE Handbook of Survey Methodology is a landmark and essential tool for any scholar within the social sciences *Handbook of Survey Research* Peter V. Marsden, James D. Wright, 2010-04-28 With chapters on sampling measurement questionnaire construction and question writing survey implementation and management survey data analysis special types of surveys and integrating surveys with other data collection methods this title includes topics such as measurement models the role of cognitive psychology and surveying networks *Advances in Questionnaire Design, Development, Evaluation and Testing* Paul C. Beatty, Debbie Collins, Lyn Kaye, Jose-Luis Padilla, Gordon B. Willis, Amanda Wilmot, 2019-10-17 A new and updated definitive resource for survey questionnaire testing and evaluation Building on the success of the first Questionnaire Development Evaluation and Testing QDET conference in 2002 this book brings together leading papers from the Second International Conference on Questionnaire Design Development Evaluation and Testing QDET2 held in 2016 The volume assesses the current state of the art and science of QDET examines the importance of methodological attention to the questionnaire in the present world of information collection and ponders how the QDET field can anticipate new trends and directions as information needs and data collection methods continue to evolve Featuring contributions from international experts in survey methodology *Advances in Questionnaire Design Development Evaluation and Testing* includes latest insights on question characteristics usability testing web probing and other pretesting approaches as well as Recent developments in the design and evaluation of digital and self administered surveys *Strategies for comparing and combining questionnaire evaluation methods Approaches for cross cultural and cross national questionnaire development New data sources and methodological innovations during the last 15 years Case studies and practical applications* *Advances in Questionnaire Design Development Evaluation and Testing* serves as a forum to prepare researchers to meet the next generation of challenges making it an excellent resource for researchers and practitioners in government academia and the private sector **Handbook of Nonresponse in Household Surveys** Jelke

Bethlehem, Fannie Cobben, Barry Schouten, 2011-04-27 A comprehensive one stop guide to identifying reducing and managing nonresponse in household surveys Nonresponse and its impact on the sample selection mechanism of a survey is a common problem that often arises while collecting survey data *Handbook of Nonresponse in Household Surveys* is a complete guide to handling the nonresponse problem outlining statistical methods and techniques for improving response rates and correcting response data The authors begin with an introduction to the nonresponse problem along with basic concepts and definitions Subsequent chapters present current theories and methods that enable survey researchers to skillfully account for nonresponse in their research Exploring the latest developments in the field the book also features An introduction to the R indicator as an indicator of survey quality Discussion of the different causes of nonresponse Extensive treatment of the selection and use of auxiliary information Best practices for re approaching nonrespondents An overview of advanced nonresponse correction techniques Coverage of adaptive survey design Throughout the book the treatment of each topic is

presented in a uniform fashion Following an introduction each chapter presents the key theories and formulas underlying the topic and then illustrates common applications Discussion concludes with a summary of the main concepts as well as a glossary of key terms and a set of exercises that allows readers to test their comprehension of the presented material Examples using real survey data are provided and a related website features additional data sets which can be easily analyzed using Stata or SPSS software Handbook of Nonresponse in Household Surveys is an essential reference for survey researchers working in the fields of business economics government and the social sciences who gather analyze and draw results from data It is also a suitable supplement for courses on survey methods at the upper undergraduate and graduate levels

Small Area Estimation J. N. K. Rao, Isabel Molina, 2015-08-10 Praise for the First Edition This pioneering work in which Rao provides a comprehensive and up to date treatment of small area estimation will become a classic I believe that it has the potential to turn small area estimation into a larger area of importance to both researchers and practitioners Journal of the American Statistical Association Written by two experts in the field *Small Area Estimation Second Edition* provides a comprehensive and up to date account of the methods and theory of small area estimation SAE particularly indirect estimation based on explicit small area linking models The model based approach to small area estimation offers several advantages including increased precision the derivation of optimal estimates and associated measures of variability under an assumed model and the validation of models from the sample data Emphasizing real data throughout the Second Edition maintains a self contained account of crucial theoretical and methodological developments in the field of SAE The new edition provides extensive accounts of new and updated research which often involves complex theory to handle model misspecifications and other complexities Including information on survey design issues and traditional methods employing indirect estimates based on implicit linking models *Small Area Estimation Second Edition* also features Additional sections describing the use of R code data sets for readers to use when replicating applications Numerous examples of SAE applications throughout each chapter including recent applications in U S Federal programs New topical coverage on extended design issues synthetic estimation further refinements and solutions to the Fay Herriot area level model basic unit level models and spatial and time series models A discussion of the advantages and limitations of various SAE methods for model selection from data as well as comparisons of estimates derived from models to reliable values obtained from external sources such as previous census or administrative data *Small Area Estimation Second Edition* is an excellent reference for practicing statisticians and survey methodologists as well as practitioners interested in learning SAE methods The Second Edition is also an ideal textbook for graduate level courses in SAE and reliable small area statistics

Improving Survey Response Ineke A. L. Stoop, Jaak Billiet, Achim Koch, Rory Fitzgerald, 2010-03-09 High response rates have traditionally been considered as one of the main indicators of survey quality Obtaining high response rates is sometimes difficult and expensive but clearly plays a beneficial role in terms of improving data quality It is becoming increasingly clear however that simply

boosting response to achieve a higher response rate will not in itself eradicate nonresponse bias In this book the authors argue that high response rates should not be seen as a goal in themselves but rather as part of an overall survey quality strategy based on random probability sampling and aimed at minimising nonresponse bias Key features of Improving Survey Response A detailed coverage of nonresponse issues including a unique examination of cross national survey nonresponse processes and outcomes A discussion of the potential causes of nonresponse and practical strategies to combat it A detailed examination of the impact of nonresponse and of techniques for adjusting for it once it has occurred Examples of best practices and experiments drawn from 25 European countries Supplemented by the European Social Survey ESS websites containing materials for the measurement and analysis of nonresponse based on detailed country level response process datasets The book is designed to help survey researchers and those commissioning surveys by explaining how to prioritise the reduction of nonresponse bias rather than focusing on increasing the overall response rate It shows substantive researchers how nonresponse can impact on substantive outcomes

Cognitive Interviewing Methodology Kristen Miller, Valerie Chepp, Stephanie Willson, Jose-Luis Padilla, 2014-07-15 AN INTERDISCIPLINARY PERSPECTIVE TO THE EVOLUTION OF THEORY AND METHODOLOGY WITHIN COGNITIVE INTERVIEW PROCESSES Providing a comprehensive approach to cognitive interviewing in the field of survey methodology Cognitive Interviewing Methodology delivers a clear guide that draws upon modern cutting edge research from a variety of fields Each chapter begins by summarizing the prevailing paradigms that currently dominate the field of cognitive interviewing Then underlying theoretical foundations are presented which supplies readers with the necessary background to understand newly evolving techniques in the field The theories lead into developed and practiced methods by leading practitioners researchers and or academics Finally the edited guide lays out the limitations of cognitive interviewing studies and explores the benefits of cognitive interviewing with other methodological approaches With a primary focus on question evaluation Cognitive Interviewing Methodology also includes Step by step procedures for conducting cognitive interviewing studies which includes the various aspects of data collection questionnaire design and data interpretation Newly developed tools to benefit cognitive interviewing studies as well as the field of question evaluation such as Q Notes a data entry and analysis software application and Q Bank an online resource that houses question evaluation studies A unique method for questionnaire designers survey managers and data users to analyze present and document survey data results from a cognitive interviewing study An excellent reference for survey researchers and practitioners in the social sciences who utilize cognitive interviewing techniques in their everyday work Cognitive Interviewing Methodology is also a useful supplement for courses on survey methods at the upper undergraduate and graduate level

Statistical Disclosure Control Anco Hundepool, Josep Domingo-Ferrer, Luisa Franconi, Sarah Giessing, Eric Schulte Nordholt, Keith Spicer, Peter-Paul de Wolf, 2012-07-05 A reference to answer all your statistical confidentiality questions This handbook provides technical guidance on statistical disclosure control and on how to approach

the problem of balancing the need to provide users with statistical outputs and the need to protect the confidentiality of respondents Statistical disclosure control is combined with other tools such as administrative legal and IT in order to define a proper data dissemination strategy based on a risk management approach The key concepts of statistical disclosure control are presented along with the methodology and software that can be used to apply various methods of statistical disclosure control Numerous examples and guidelines are also featured to illustrate the topics covered Statistical Disclosure Control Presents a combination of both theoretical and practical solutions Introduces all the key concepts and definitions involved with statistical disclosure control Provides a high level overview of how to approach problems associated with confidentiality Provides a broad ranging review of the methods available to control disclosure Explains the subtleties of group disclosure control Features examples throughout the book along with case studies demonstrating how particular methods are used Discusses microdata magnitude and frequency tabular data and remote access issues Written by experts within leading National Statistical Institutes Official statisticians academics and market researchers who need to be informed and make decisions on disclosure limitation will benefit from this book Book Alone Janet Houser, 2011-06-02 Essential for nursing research courses Nursing Research Reading Using and Creating Evidence Second Edition demonstrates how to use research as the basis for successful nursing practice Fully updated and revised this reader friendly new edition provides students with the fundamentals of appraising and utilizing research Organized around the different types of research in evidence based practice it addresses contemporary concerns especially ethical and legal issues Additionally it explores both quantitative and qualitative traditions to encourage students to read use and participate in the research process Sampling of Populations Paul S. Levy, Stanley Lemeshow, 2013-06-07 A trusted classic on the key methods in population sampling now in a modernized and expanded new edition Sampling of Populations Fourth Edition continues to serve as an all inclusive resource on the basic and most current practices in population sampling Maintaining the clear and accessible style of the previous edition this book outlines the essential statistical methods for survey design and analysis while also exploring techniques that have developed over the past decade The Fourth Edition successfully guides the reader through the basic concepts and procedures that accompany real world sample surveys such as sampling designs problems of missing data statistical analysis of multistage sampling data and nonresponse and poststratification adjustment procedures Rather than employ a heavily mathematical approach the authors present illustrative examples that demonstrate the rationale behind common steps in the sampling process from creating effective surveys to analyzing collected data Along with established methods modern topics are treated through the book's new features which include A new chapter on telephone sampling with coverage of declining response rates the creation of do not call lists and the growing use of cellular phones A new chapter on sample weighting that focuses on adjustments to weight for nonresponse frame deficiencies and the effects of estimator instability An updated discussion of sample survey data analysis that includes analytic procedures for estimation and hypothesis testing A new section on Chromy

s widely used method of taking probability proportional to size samples with minimum replacement of primary sampling units. An expanded index with references on the latest research in the field. All of the book's examples and exercises can be easily worked out using various software packages including SAS, STATA and SUDAAN and an extensive FTP site contains additional data sets. With its comprehensive presentation and wealth of relevant examples, *Sampling of Populations* Fourth Edition is an ideal book for courses on survey sampling at the upper undergraduate and graduate levels. It is also a valuable reference for practicing statisticians who would like to refresh their knowledge of sampling techniques.

Register-based Statistics Anders Wallgren, Britt Wallgren, 2014-04-01 This book provides a comprehensive and up to date treatment of theory and practical implementation in Register based statistics. It begins by defining the area before explaining how to structure such systems as well as detailing alternative approaches. It explains how to create statistical registers, how to implement quality assurance and the use of IT systems for register based statistics. Further to this, clear details are given about the practicalities of implementing such statistical methods such as protection of privacy and the coordination and coherence of such an undertaking. This edition offers a full understanding of both the principles and practices of this increasingly popular area of statistics and can be considered a first step to a more systematic way of working with register statistical issues. This book addresses the growing global interest in the topic and employs a much broader, more international approach than the 1st edition. New chapters explore different kinds of register based surveys such as preconditions for register based statistics and comparing sample survey and administrative data. Furthermore, the authors present discussions on register based census, national accounts and the transition towards a register based system as well as presenting new chapters on quality assessment of administrative sources and production process quality.

Experimental Methods in Survey Research Paul J. Lavrakas, Michael W. Traugott, Courtney Kennedy, Allyson L. Holbrook, Edith D. de Leeuw, Brady T. West, 2019-10-08 A thorough and comprehensive guide to the theoretical, practical and methodological approaches used in survey experiments across disciplines such as political science, health sciences, sociology, economics, psychology and marketing. This book explores and explains the broad range of experimental designs embedded in surveys that use both probability and non probability samples. It approaches the usage of survey based experiments with a Total Survey Error (TSE) perspective which provides insight on the strengths and weaknesses of the techniques used. *Experimental Methods in Survey Research* Techniques that Combine Random Sampling with Random Assignment addresses experiments on within unit coverage, reducing nonresponse, question and questionnaire design, minimizing interview measurement bias using adaptive design, trend data, vignettes, the analysis of data from survey experiments and other topics across social, behavioral and marketing science domains. Each chapter begins with a description of the experimental method or application and its importance, followed by reference to relevant literature. At least one detailed original experimental case study then follows to illustrate the experimental method's deployment, implementation and analysis from a TSE perspective. The chapters conclude with theoretical and practical

implications on the usage of the experimental method addressed In summary this book Fills a gap in the current literature by successfully combining the subjects of survey methodology and experimental methodology in an effort to maximize both internal validity and external validity Offers a wide range of types of experimentation in survey research with in depth attention to their various methodologies and applications Is edited by internationally recognized experts in the field of survey research methodology and in the usage of survey based experimentation featuring contributions from across a variety of disciplines in the social and behavioral sciences Presents advances in the field of survey experiments as well as relevant references in each chapter for further study Includes more than 20 types of original experiments carried out within probability sample surveys Addresses myriad practical and operational aspects for designing implementing and analyzing survey based experiments by using a Total Survey Error perspective to address the strengths and weaknesses of each experimental technique and method Experimental Methods in Survey Research Techniques that Combine Random Sampling with Random Assignment is an ideal reference for survey researchers and practitioners in areas such political science health sciences sociology economics psychology public policy data collection data science and marketing It is also a very useful textbook for graduate level courses on survey experiments and survey methodology Question Evaluation Methods Jennifer Madans,Kristen Miller,Aaron Maitland,Gordon B. Willis,2011-10-14 Insightful observations on common question evaluation methods and best practices for data collection in survey research Featuring contributions from leading researchers and academicians in the field of survey research Question Evaluation Methods Contributing to the Science of Data Quality sheds light on question response error and introduces an interdisciplinary cross method approach that is essential for advancing knowledge about data quality and ensuring the credibility of conclusions drawn from surveys and censuses Offering a variety of expert analyses of question evaluation methods the book provides recommendations and best practices for researchers working with data in the health and social sciences Based on a workshop held at the National Center for Health Statistics NCHS this book presents and compares various question evaluation methods that are used in modern day data collection and analysis Each section includes an introduction to a method by a leading authority in the field followed by responses from other experts that outline related strengths weaknesses and underlying assumptions Topics covered include Behavior coding Cognitive interviewing Item response theory Latent class analysis Split sample experiments Multitrait multimethod experiments Field based data methods A concluding discussion identifies common themes across the presented material and their relevance to the future of survey methods data analysis and the production of Federal statistics Together the methods presented in this book offer researchers various scientific approaches to evaluating survey quality to ensure that the responses to these questions result in reliable high quality data Question Evaluation Methods is a valuable supplement for courses on questionnaire design survey methods and evaluation methods at the upper undergraduate and graduate levels it also serves as a reference for government statisticians survey methodologists and researchers and

practitioners who carry out survey research in the areas of the social and health sciences **Measuring Media Use and Exposure** Christina Peter, Teresa K. Naab, Rinaldo Kühne, 2019-09-11 The precise measurement of media use and exposure to media content posits currently one of the main methodological challenges in communication research Against this background new communication technologies have been gaining particular importance because they change existing patterns of media use and create new types of media use At the same time these technologies do not only present a challenge for communication research but they also provide new opportunities for the assessment of media use The volume regards current developments and trends in the measurement of media use and exposure from various perspectives Contributions deal with the refinement and advancement of classical approaches and new methods and measures of assessing media use are introduced and evaluated They also discuss the advantages and challenges of using online behavioral data as indicators for media exposure Contributions tackle questions how different methods of measuring media use and exposure can be combined to gain a more accurate picture and what pitfalls can occur *Nursing Research: Reading, Using, and Creating Evidence (Second Edition)* Janet Houser, PhD, RN, **The Oxford Handbook of Polling and Survey Methods** Lonna Rae Atkeson, R. Michael Alvarez, 2018-07-25 The methodologies used to study public opinion are now in flux The primary polling method of the last half century the telephone survey is rapidly becoming obsolete as a data collection method At the same time new methods of contacting potential respondents and obtaining their response are appearing providing a variety of options for scholars and practitioners Generally speaking we are moving from a polling world that was largely interviewer driven over the phone and face to face to predominantly interviewer driven self administered poll environments New methods of data collection however must still deal with fundamental questions to polling methodology and total survey error including sampling selection bias non response error poststratification weighting and questionnaire design features The Oxford Handbook on Polling and Survey Methods brings together a unique mixture of academics and practitioners from various backgrounds academic disciplines and experiences In some sense this is reflective of the interdisciplinary nature of the polling and survey industry polls and surveys are widely used in academia government and the private sector Designing implementing and analyzing high quality accurate and cost effective polls and surveys requires a combination of skills and methodological perspectives Despite the well publicized issues that have cropped up in recent political polling a great deal is known today about how to collect high quality polling and survey data even in complex and difficult environments Divided into four main sections the Handbook draws on the existing research and explores data collection methods It then addresses data analysis and the methods available for combining polling data with other types of data The next section covers analytic issues including the new approaches to studying public opinion ie social media the analysis of open ended questions using text analytic tools and data imputation The final section focuses on the presentation of polling results an area where there is a great deal of innovation A comprehensive overview of the topic this volume highlights current polling trends provides ideas

for the development of new and better approaches for measuring modeling and visualizing public opinion and social behavior

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Margins Of Error A Study Of Reliability In Survey Measurement Introduction

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