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MEASUREMENT ERRORS IN SURVEYS

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Measurement Errors In Surveys

Robert M. Groves



Measurement Errors In Surveys:

Measurement Errors in Surveys Paul P. Biemer, Robert M. Groves, Lars E. Lyberg, Nancy A. Mathiowetz, Seymour Sudman, 2013-08-12 WILEY INTERSCIENCE PAPERBACK SERIES The Wiley Interscience Paperback Series consists of selected books that have been made more accessible to consumers in an effort to increase global appeal and general circulation With these new unabridged softcover volumes Wiley hopes to extend the lives of these works by making them available to future generations of statisticians mathematicians and scientists This book will be an aid to survey statisticians and to research workers who must work with survey data Short Book Reviews International Statistical Institute Measurement Errors in Surveys documents the current state of the field reports new research findings and promotes interdisciplinary exchanges in modeling assessing and reducing measurement errors in surveys Providing a fundamental approach to measurement errors the book features sections on the questionnaire respondents and responses interviewers and other means of data collection the respondent interviewer relationship and the effects of measurement errors on estimation and data analysis

Survey Errors and Survey Costs Robert M. Groves, 2005-01-21 The Wiley Interscience Paperback Series consists of selected books that have been made more accessible to consumers in an effort to increase global appeal and general circulation With these new unabridged softcover volumes Wiley hopes to extend the lives of these works by making them available to future generations of statisticians mathematicians and scientists Survey Errors and Survey Costs is a well written well presented and highly readable text that should be on every error conscious statistician's bookshelf Any courses that cover the theory and design of surveys should certainly have Survey Errors and Survey Costs on their reading lists Phil Edwards MEL Aston University Science Park UK Review in The Statistician Vol 40 No 3 1991 This volume is an extremely valuable contribution to survey methodology It has many virtues First it provides a framework in which survey errors can be segregated by sources Second Groves has skillfully synthesized existing knowledge bringing together in an easily accessible form empirical knowledge from a variety of sources Third he has managed to integrate into a common framework the contributions of several disciplines For example the work of psychometricians and cognitive psychologists is made relevant to the research of econometricians as well as the field experience of sociologists Finally but not least Groves has managed to present all this in a style that is accessible to a wide variety of readers ranging from survey specialists to policymakers Peter H Rossi University of Massachusetts at Amherst Review in Journal of Official Statistics January 1991

Patterns and impact of longitudinal measurement error for welfare receipt Johannes Eggs, 2016-11-30 Diese Arbeit beschäftigt sich mit Messfehlern in Längsschnittdaten Messfehler können in besonderem Maße die Messung von Veränderungen und Veränderungen über die Zeit beeinflussen Die Messung von Veränderungen ist jedoch einer der Hauptgründe für das Erheben von Längsschnittdaten Allerdings werden Messfehler in Längsschnittdaten selten analysiert Durch die Verknüpfung von Paneldaten mit Registerdaten auf der individuellen Ebene werden in dieser Arbeit Messfehler für den Bezug von Arbeitslosengeld II für

nf aufeinanderfolgende Panelwellen untersucht Dabei zeigt sich dass die Messfehler f r den Bezug nicht zuf llig verteilt sind sondern mit der Zeit und pers nlichen Charakteristiken korrelieren **Encyclopedia of Survey Research Methods** Paul J. Lavrakas,2008-09-12 In conjunction with top survey researchers around the world and with Nielsen Media Research serving as the corporate sponsor the Encyclopedia of Survey Research Methods presents state of the art information and methodological examples from the field of survey research Although there are other how to guides and references texts on survey research none is as comprehensive as this Encyclopedia and none presents the material in such a focused and approachable manner With more than 600 entries this resource uses a Total Survey Error perspective that considers all aspects of possible survey error from a cost benefit standpoint The Total Survey Error Approach Herbert F. Weisberg,2009-12-29 In 1939 George Gallup s American Institute of Public Opinion published a pamphlet optimistically titled The New Science of Public Opinion Measurement At the time though survey research was in its infancy and only now six decades later can public opinion measurement be appropriately called a science based in part on the development of the total survey error approach Herbert F Weisberg s handbook presents a unified method for conducting good survey research centered on the various types of errors that can occur in surveys from measurement and nonresponse error to coverage and sampling error Each chapter is built on theoretical elements drawn from specific disciplines such as social psychology and statistics and follows through with detailed treatments of the specific types of error and their potential solutions Throughout Weisberg is attentive to survey constraints including time and ethical considerations as well as controversies within the field and the effects of new technology on the survey process from Internet surveys to those completed by phone by mail and in person Practitioners and students will find this comprehensive guide particularly useful now that survey research has assumed a primary place in both public and academic circles Nonsampling Error in Social Surveys David E. McNabb,2013-07-30 A welcome and much needed addition to the literature on survey data quality in social research McNabb s book examines the most common sources of nonsampling error frame error measurement error response error nonresponse error and interviewer error Offering the only comprehensive and non technical treatment available the book s focus on controlling error shows readers how to eliminate the opportunity for error to occur and features revealing examples of past and current efforts to control the incidence and effects of nonsampling error Most importantly it gives readers the tools they need to understand identify address and prevent the most prevalent and difficult to control types of survey errors **Total Survey Error in Practice** Paul P. Biemer,Edith D. de Leeuw,Stephanie Eckman,Brad Edwards,Frauke Kreuter,Lars E. Lyberg,N. Clyde Tucker,Brady T. West,2017-02-06 Featuring a timely presentation of total survey error TSE this edited volume introduces valuable tools for understanding and improving survey data quality in the context of evolving large scale data sets This book provides an overview of the TSE framework and current TSE research as related to survey design data collection estimation and analysis It recognizes that survey data affects many public policy and business decisions and thus

focuses on the framework for understanding and improving survey data quality The book also addresses issues with data quality in official statistics and in social opinion and market research as these fields continue to evolve leading to larger and messier data sets This perspective challenges survey organizations to find ways to collect and process data more efficiently without sacrificing quality The volume consists of the most up to date research and reporting from over 70 contributors representing the best academics and researchers from a range of fields The chapters are broken out into five main sections The Concept of TSE and the TSE Paradigm Implications for Survey Design Data Collection and Data Processing Applications Evaluation and Improvement and Estimation and Analysis Each chapter introduces and examines multiple error sources such as sampling error measurement error and nonresponse error which often offer the greatest risks to data quality while also encouraging readers not to lose sight of the less commonly studied error sources such as coverage error processing error and specification error The book also notes the relationships between errors and the ways in which efforts to reduce one type can increase another resulting in an estimate with larger total error This book Features various error sources and the complex relationships between them in 25 high quality chapters on the most up to date research in the field of TSE Provides comprehensive reviews of the literature on error sources as well as data collection approaches and estimation methods to reduce their effects Presents examples of recent international events that demonstrate the effects of data error the importance of survey data quality and the real world issues that arise from these errors Spans the four pillars of the total survey error paradigm design data collection evaluation and analysis to address key data quality issues in official statistics and survey research Total Survey Error in Practice is a reference for survey researchers and data scientists in research areas that include social science public opinion public policy and business It can also be used as a textbook or supplementary material for a graduate level course in survey research methods

Total Survey Error in Practice Paul P. Biemer, Edith D. de Leeuw, Stephanie Eckman, Brad Edwards, Frauke Kreuter, Lars E. Lyberg, N. Clyde Tucker, Brady T. West, 2017-02-21

Featuring a timely presentation of total survey error TSE this edited volume introduces valuable tools for understanding and improving survey data quality in the context of evolving large scale data sets This book provides an overview of the TSE framework and current TSE research as related to survey design data collection estimation and analysis It recognizes that survey data affects many public policy and business decisions and thus focuses on the framework for understanding and improving survey data quality The book also addresses issues with data quality in official statistics and in social opinion and market research as these fields continue to evolve leading to larger and messier data sets This perspective challenges survey organizations to find ways to collect and process data more efficiently without sacrificing quality The volume consists of the most up to date research and reporting from over 70 contributors representing the best academics and researchers from a range of fields The chapters are broken out into five main sections The Concept of TSE and the TSE Paradigm Implications for Survey Design Data Collection and Data Processing Applications Evaluation and Improvement and Estimation and

Analysis Each chapter introduces and examines multiple error sources such as sampling error measurement error and nonresponse error which often offer the greatest risks to data quality while also encouraging readers not to lose sight of the less commonly studied error sources such as coverage error processing error and specification error The book also notes the relationships between errors and the ways in which efforts to reduce one type can increase another resulting in an estimate with larger total error This book Features various error sources and the complex relationships between them in 25 high quality chapters on the most up to date research in the field of TSE Provides comprehensive reviews of the literature on error sources as well as data collection approaches and estimation methods to reduce their effects Presents examples of recent international events that demonstrate the effects of data error the importance of survey data quality and the real world issues that arise from these errors Spans the four pillars of the total survey error paradigm design data collection evaluation and analysis to address key data quality issues in official statistics and survey research Total Survey Error in Practice is a reference for survey researchers and data scientists in research areas that include social science public opinion public policy and business It can also be used as a textbook or supplementary material for a graduate level course in survey research methods

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 why 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

What Leads to Measurement Errors? Pablo A. Celhay, Bruce D. Mayer, Nikolas Mittag, 2022 Measurement errors are often a large source of bias in survey data Lack of knowledge of the determinants of such errors makes it difficult for data producers to reduce the extent of errors and for data users to assess the validity of analyses using the data We study the

determinants of reporting error using high quality administrative data on government transfers linked to three major U S surveys Our results support several theories of misreporting Errors are related to event recall forward and backward telescoping salience of receipt the stigma of reporting participation in welfare programs and respondent s degree of cooperation with the survey overall We provide evidence on how survey design choices affect reporting errors Our findings help survey users to gauge the reliability of their data and to devise estimation strategies that can correct for systematic errors such as instrumental variable approaches Understanding survey errors allows survey producers to reduce them by improving survey design Our results indicate that survey producers should take into account that higher response rates as well as collecting more detailed information may have negative effects on survey accuracy

Methodology of Longitudinal Surveys Peter Lynn,2009-01-26 Longitudinal surveys are surveys that involve collecting data from multiple subjects on multiple occasions They are typically used for collecting data relating to social economic educational and health related issues and they serve as an important tool for economists sociologists and other researchers Focusing on the design implementation and analysis of longitudinal surveys *Methodology of Longitudinal Surveys* discusses the current state of the art in carrying out these surveys The book also covers issues that arise in surveys that collect longitudinal data via retrospective methods Aimed at researchers and practitioners analyzing data from statistical surveys the book will also be suitable as supplementary reading for graduate students of survey statistics This book Covers all the main stages in the design implementation and analysis of longitudinal surveys Reviews recent developments in the field including the use of dependent interviewing and mixed mode data collection Discusses the state of the art in sampling weighting and non response adjustment Features worked examples throughout using real data Addresses issues arising from the collection of data via retrospective methods as well as ethical issues confidentiality and non response bias Is written by an international team of contributors consisting of some of the most respected Survey Methodology experts in the field

Adaptive Survey Design Barry Schouten,Andy Peytchev,James Wagner,2017-07-28 Adaptive survey designs ASDs provide a framework for data driven tailoring of data collection procedures to different sample members often for cost and bias reduction People vary in how likely they are to respond and in how they respond This variation leads to opportunities to selectively deploy design features in order to control both nonresponse and measurement errors ASD aims at the optimal matching of design features and the characteristics of respondents given the survey budget Such a goal is sensible but ASD requires investment in more advanced technical systems and management infrastructure and asks for the collection of relevant auxiliary data So what are current best practices in ASD And is ASD worthwhile when the same auxiliary data are employed in the estimation afterwards In this book the authors provide answers to these questions and much more

Mixed-Mode Official Surveys Barry Schouten,Jan van den Brakel,Bart Buelens,Deirdre Giesen,Annemieke Luiten,Vivian Meertens,2021-09-27 Mixed mode surveys have become a standard at many statistical institutes However the introduction of multiple modes in one design goes

with challenges to both methodology and logistics Mode specific representation and measurement differences become explicit and demand for solutions in data collection design questionnaire design and estimation This is especially true when surveys are repeated and are input to long time series of official statistics So how can statistical institutes deal with such changes What are the origins of mode specific error And how can they be dealt with In this book the authors provide answers to these questions and much more Features Concise introduction to all the key elements of mixed mode survey design and analysis Realistic official statistics examples from three general population surveys Suitable for survey managers and survey statisticians alike An overview of mode specific representation and measurement errors and how to avoid reduce and adjust them

Handbook of Survey Methodology for the Social Sciences Lior Gideon,2012-06-21 Surveys enjoy great ubiquity among data collection methods in social research they are flexible in questioning techniques in the amount of questions asked in the topics covered and in the various ways of interactions with respondents Surveys are also the preferred method by many researchers in the social sciences due to their ability to provide quick profiles and results Because they are so commonly used and fairly easy to administer surveys are often thought to be easily thrown together But designing an effective survey that yields reliable and valid results takes more than merely asking questions and waiting for the answers to arrive Geared to the non statistician the Handbook of Survey Methodology in Social Sciences addresses issues throughout all phases of survey design and implementation Chapters examine the major survey methods of data collection providing expert guidelines for asking targeted questions improving accuracy and quality of responses while reducing sampling and non sampling bias Relying on the Total Survey Error theory various issues of both sampling and non sampling sources of error are explored and discussed By covering all aspects of the topic the Handbook is suited to readers taking their first steps in survey methodology as well as to those already involved in survey design and execution and to those currently in training Featured in the Handbook The Total Survey Error sampling and non sampling errors Survey sampling techniques The art of question phrasing Techniques for increasing response rates A question of ethics what is allowed in survey research Survey design face to face phone mail e mail online computer assisted Dealing with sensitive issues in surveys Demographics of respondents implications for future survey research Dealing with nonresponse and nonresponse bias The Handbook of Survey Methodology in Social Sciences offers how to clarity for researchers in the social and behavioral sciences and related disciplines including sociology criminology criminal justice social psychology education public health political science management and many other disciplines relying on survey methodology as one of their main data collection tools

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 Errors and Survey Costs Robert M. Groves, 2005-01-21 The Wiley Interscience Paperback Series consists of selected books that have been made more accessible to consumers in an effort to increase global appeal and general circulation With these new unabridged softcover volumes Wiley hopes to extend the lives of these works by making them available to future generations of statisticians mathematicians and scientists *Survey Errors and Survey Costs* is a well written well presented and highly readable text that should be on every error conscious statistician's bookshelf Any courses that cover the theory and design of surveys should certainly have *Survey Errors and Survey Costs* on their reading lists Phil Edwards MEL Aston University Science Park UK Review in *The Statistician* Vol 40 No 3 1991 This volume is an extremely valuable contribution to survey methodology It has many virtues First it provides a framework in which survey errors can be segregated by sources Second Groves has skillfully synthesized existing knowledge bringing together in an easily accessible form empirical knowledge from a variety of sources Third he has managed to integrate into a common framework the contributions of several disciplines For example the work of psychometricians and cognitive psychologists is made relevant to the research of econometricians as well as the field experience of sociologists Finally but not least Groves has managed to present all this in a style that is accessible to a wide variety of readers ranging from survey specialists to policymakers Peter H Rossi University of Massachusetts at Amherst Review in *Journal of Official Statistics* January 1991

The Effects of Errors in Surveying Henry Briggs, 1912

Research Methods for Pharmaceutical Practice and Policy Rajender R. Aparasu, 2011 This text provides the theory and practice for conducting pharmaceutical policy research It covers all aspects of scientific

research from conceptualising to statistical analysis It also provides scientific basis and a good understanding of the principles and practice of conducting pharmaceutical policy research

Measurement Errors in Censuses and Surveys

Morris Howard Hansen, 1961 In a census or a sample survey we may obtain observations through personal inquiry direct questionnaire or other methods of the age income buying performance attitude on a particular question acreage or other characteristic of a person household farm business area or other unit The set of measurements of observations recorded in the collection operation ordinarily are examined for internal consistency and acceptability certain corrections may be made and some of the entries may then be coded to identify them in a classification system The results are then summarized into totals averages correlations or other statistical measures Taken together the collection and processing operations constitute the measurement process and are the source of any measurement errors A more careful definition of measurement errors and their distinction from sampling errors will be given later

The Psychology of Survey Response Roger

Tourangeau, Lance J. Rips, Kenneth Rasinski, 2000-03-13 This valuable book examines the complex psychological processes involved in answering different types of survey questions Drawing on both classic and modern research from cognitive psychology social psychology and survey methodology the authors examine how survey responses are formulated and they demonstrate how seemingly unimportant features of the survey can affect the answers obtained The book provides a comprehensive review of the sources of response errors in surveys and it offers a coherent theory of the relation between the underlying views of the public and the results of public opinion polls Topics include the comprehension of survey questions the recall of relevant facts and beliefs estimation and inferential processes people use to answer survey questions the sources of the apparent instability of public opinion the difficulties in getting responses into the required format and the distortions introduced into surveys by deliberate misreporting

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