2015 International Total Survey Error Conference





Welcome to the TSE15

Welcome to the 2015 International Total Survey Error Conference.

TSE15 is designed for statisticians, survey managers and methodologists, pollsters, public opinion researchers, and marketing research professionals focused on survey quality and the challenges of big data. The Total Survey Error concept summarizes the ways a survey estimate may deviate from the corresponding value in the population.





Conference Organizing Committee

Dr. Stephanie Eckman (co-chair)

Senior Researcher, Institute for Employment Research (IAB)

Brad Edwards (co-chair)

Vice President and Deputy Area Director, Westat

Dr. Paul Biemer

Distinguished Fellow, RTI International

Dr. Frauke Kreuter

Associate Professor, Joint Program in Survey Methodology, University of Maryland

Dr. Edith de Leeuw

Professor, Utrecht University

Dr. Lars Lyberg

Professor, Department of Statistics, University of Stockholm

Dr. Clyde Tucker

Principal Survey Methodologist, American Institutes for Research

Dr. Brady West

Research Assistant Professor, Survey Methodology Program, Survey Research Center, Institute for Social Research, University of Michigan-Ann Arbor

TSE15 Supporters

TSE15 is supported by the Council of Professional Associations on Federal Statistics (COPAFS), with conference support from Kellen (formerly The Sherwood Group Inc.)

Thank You to our Sponsors

Event Sponsors









Government Statistics Section of ASA Social Statistics Section of ASA Survey Research Methods Section of ASA

Contributors

Diamond Level





Gold Level





Survey Research Center, University Of Michigan

Conference Supporters







IOWA STATE UNIVERSITY
Department of Statistics

Partners

COPAFS (Council of Professional Associations on Federal Statistics)



Saturday, September 19

9:00 a.m. - 5:00 p.m.

Short Courses

Total Survey Error Framework: Essentials

Room: Homeland, 5th Floor

Paul Biemer, Distinguished Fellow, RTI International, University of North Carolina, Chapel Hill; Lars Lyberg, Professor Emeritus, University of Stockholm

Total Survey Error in Project Management

Room: Federal Hill, 5th Floor

Brad Edwards, Vice President, Director of Field Services and Deputy Director, Westat;

Michelle Amsbary, Senior Study Director and Project Director,

American National Election Survey at Westat, Maryland

A Small Course on Big Data for Survey Researchers

Room: Maryland A, 5th Floor

Trent Buskirk, Vice President of Statistics and Methodology, Marketing Systems Group;

Frauke Kreuter, Professor at the Joint Program in Survey Methodology and Professor of Statistics and Social Science Research at the University of Mannheim Sunday, September 20

9:30 - 11:30 a.m.

Paper Session I

Interactions of Survey Error and Ethnicity I

Room: Maryland A, 5th Floor Session Chair: Sunghee Lee

Ethnic Minorities in Surveys: Applying the TSE Paradigm to

Invited Presentation

Surveys Among Ethnic Minority Groups to Assess the Relationship Between Survey Design, Sample Frame and Survey Data Quality

Joost Kappelhof Institute for Social Research/SCP

How Does Language Shape Public Opinion?

Efren Perez Vanderbilt University

Survey Error Associated with the Translation of U.S. Education Level Categories into Spanish

Patricia Goerman, Leticia Fernandez, Kathleen Kephart U.S. Census Bureau

The Role of Time Perspectives on Subjective Probability Response Patterns Among Hispanics

Sunghee Lee University of Michigan

Sexual Orientation and Behavior Item Nonresponse and Measure Concordance Across Race/Ethnicity, Sex, Interview Language, and English Proficiency: Evidence from Five Cycles of the California Health Interview Survey

Matt Jans¹, David Grant², Joseph Viana²
¹Center for Health Policy Research, ²UCLA Center for Health Policy Research



Interviewer Effects Across Error Sources

Room: Maryland E, 5th Floor

Session Chair: Stephanie Eckman

Interviewers' Attitudes Towards Surveys, Interviewer Experience, Response Locus of Control, Personality and the Impact on Cooperation with CATI-Surveys

Volker Huefken Heinrich-Heine-Universität Düsseldorf

Mode Effect in Voting Behavior and Social Trust: A Comparison Between CAPI and CATI

Pei-shan Liao Academia Sinica

Influence of Prior Respondent-Interviewer Interaction on Disclosure in Audio Computer-assisted Selfinterviewing (ACASI)

Hanyu Sun Westat

Nonresponse

Room: Homeland, 5th Floor Session Chair: Lin Wang

Identification and Reduction of Nonresponse Bias in Address-Based Sample Surveys

Burton Levine RTI International

How to Estimate the Nonresponse Error in Probability Terms

Daniel Thorburn Dept. of Statistics, Stockholm University

An Imputation Approach to Handling Nonignorable Nonresponse Using Paradata

Seho Park¹, Jae Kwang Kim¹, Kimin Kim² ¹Iowa State University, ²Korea Labor Institute

A Forest Full of Respondents: Comparing Logistic Regression and Random Forest Models for Response **Propensity Weighting Adjustments**

Trent Buskirk¹, Stanislav Kolenikov² ¹Marketing Systems Group, ²Abt SRBI

The Intersection of Sampling and Nonresponse: Does Repeated Sampling of Some Individuals Affect Nonresponse Bias?

Jennifer Sinibaldi¹, Anton Örn Karlsson² ¹JPSM, University of Maryland, ²Statistics Iceland

Comparison Between Substitution and Strata Collapsing for Sampling Variance Estimation Under the Presence of Nonresponding PSUs

Raphael Nishimura, James Lepkoswki University of Michigan

Sunday, September 20 9:30 - 11:30 a.m.

Paper Session I (continued)

Data Falsification: Who, Why and How to

Detect It

Room: Maryland D/F, 5th Floor Session Chair: Nancy Bates

Taking Fabrication Detection and Prevention Beyond the Interviewer Level

Steve Koczela The MassINC Polling Group

Curb Stoning and Culture

Arthur Kennickell Federal Reserve Board

Data Falsification: Who, Why and How to Detect It

Cathy Furlong Integrity Management Services, LLC

Understanding Core Reasons Why Falsification Occurs During Field Data Collection

Timothy Olson U.S. Census Bureau

Detecting Data Falsification in Survey Research

Noble Kuriakose¹, Michael Robbins²
¹SurveyMonkey, ²Princeton University

Methods for Assessing and Integrating Solutions for Total Survey Error in a Large National Survey: The National Crime Victimization Survey

Room: Guilford, 5th Floor

Session Chair: Marcus Berzofsky

The Impact of Adaptive Design on Nonresponse Bias and Precision

Michael Planty, Lynn Langton U.S. Bureau of Justice Statistics

Methods for Reducing TSE in Subnational Estimates: An Assessment of Coverage Error Through the Comparison of Nationally Calibrated Weights to Subnational Area-specific Calibrated Weights

Bonnie Shook-Sa¹, Marcus Berzofsky¹, G. Lance Couzens¹, Andrew Moore¹, Philip Lee¹, Lynn Langton², Michael Plantv²

¹RTI International, ²U.S.Bureau of Justice Statistics

Discussion on Reducing Total Survey Error in the National Crime Victimization Survey

Lynn Langton
U.S. Bureau of Justice Statistics

Comparing Error Structures for Estimates of Rape and Sexual Assault: The Design of the National Survey on Health and Safety

David Cantor¹, Shannan Catalano², Allen Beck²
¹Westat, ²U.S. Bureau of Justice Statistics

Minimizing Total Survey Error in the National Crime Victimization Survey: An Assessment of Methods to Adjust for Recall Bias and Fatigue

Andrew Moore, Marcus Berzofsky, Lance Couzens, Dave Heller, Chelsea Burfeind RTI International



Coverage Error in Practice: Operational Issues for Measuring Frame Coverage of Demographic Surveys

Room: Federal Hill, 5th Floor Session Chair: Cha-Chi Fan

Is the Whole Sampling Frame Less than the Sum of Its Parts? How Operational Weaknesses Can Undermine Frame Coverage

Clifford Loudermilk U.S. Census Bureau

Assessing Lister Error Associated with Frame Creation — Comparing Address Listing Results and 2010 Census Outcomes

Aliza Kwiat U.S. Census Bureau

Selection of Predictors to Model Coverage Errors in the Master Address File

Andrew Raim U.S. Census Bureau

A Sensitivity Analysis of Coverage Error for Demographic Surveys

Cha-Chi Fan U.S. Census Bureau

Record Linkage

Room: Gibson, 6th Floor

Session Chair: Frauke Kreuter

Errors in Linking Survey and Administrative Data

Invited Presentation

Joe Sakshaug University of Manchester

The Nature of the Bias when Studying Only Linkable Person Records: Evidence from the American Community Survey

Adela Luque¹, Amy O'Hara¹, David Brown¹, Brittany Bond² ¹U.S. Census Bureau, ²U.S. Department of Commerce

Determining Recall Errors in Retrospective Life Course Data - An Approach Using Linked Survey and Administrative Data

Stefanie Unger, Britta Matthes Institute for Employment Research

Statistical Analysis of Files Created Through Record Linkage: Joint Modeling of Linkage and Analysis

Michael Larsen The George Washington University

Use of Linked Survey Data to Develop Responsive Design Sampling Strategies in the Medical Expenditure Panel Survey

Lisa Mirel, Sadeq Chowdhury, Steven Machlin DHHS\AHRQ

Analytic Error as an Important Component of Total Survey Error: Results from a Meta-Analysis

Invited Presentation

Joe Sakshaug¹, Brady West²
¹University of Manchester, ²Institute for Social Research

Sunday, September 20 1:30 - 3:30 p.m.

Paper Session II

Errors in Panel Surveys

Room: Maryland A, 5th Floor Session Chair: Brad Edwards

Total Survey Error for Longitudinal Surveys

Invited Presentation

Peter Lynn, Peter J. Lugtig Institute for Social and Economic Research

Using Doorstep Concerns Data to

Evaluate and Correct for Nonresponse

Error Components in a Longitudinal Survey

Ting Yan, Shirley Tsai Westat

Mobile Device Surveys in a U.S. College Student Population: Results from a Program of Research Exploring Nonresponse and Data Quality Issues in a Longitudinal Panel Survey

Scott Beach, Donald Musa, Stephen Strotmeyer, Janet Schlarb University of Pittsburgh

Introducing Adaptive Design Elements in the Panel Study "Labour Market and Social Security" (PASS)

Mark Trappmann¹, Gerrit Mueller²
¹IAB University of Bamberg, ²IAB

Interviewer Effects Following Throughout the Total Survey Error Framework

Room: Maryland E, 5th Floor

Session Chair: Annelies Blom

Interviewer Effects on Multiple Sources of Survey Error

Annelies G. Blom, Daniela Ackermann-Piek University of Mannheim

Interviewer Effects on Straight-lining

Geert Loosveldt, Koen Beullens KULeuven

Do Interviewers with High Cooperation Rates Behave Differently? Interviewer Cooperation Rates and Interview Behaviors

Kristen Olson, Jolene Smyth, Antje Kirchner University of Nebraska-Lincoln

Improving Survey Data Quality Under Total Survey Error Framework: Application to Two Surveys of U.S. NSF – National Survey College Graduates (NSCG) and Survey of Doctorate Recipients (SDR)

Room: Homeland, 5th Floor Session Chair: Donsig Jang

The Effects of Data Editing and Imputation on Total Survey Error of the National Survey of College Graduates

Alicia Haelen, Donsig Jang Mathematica Policy Research

Improving Data Quality During Data Collection: Adaptive Design in the 2015 NSCG

Stephanie Coffey¹, Benjamin Reist²
¹U.S. Census Bureau / Joint Program in Survey Methodology, ²U.S. Census Bureau

Investigating Non-sampling Error in Longitudinal Panel of the Survey of Doctorate Recipients

Wan-Ying Chang¹, Lynn Milan²
¹National Science Foundation / NCSES, ²National Science Foundation / NCSES



Invited Presentation

Invited Presentation

Conference Schedule

The TSE Framework: Looking Back and Looking Forward

Room: Maryland D/F, 5th Floor Session Chair: Paul Biemer

The Roots of the Concept of **Total Survey Error**

Lars Lyberg¹, Diana Stukel² ¹Stockholm University, ²FHI360

Applying the Total Survey Error Paradigm to Multiple Surveys and Auxiliary Data

Invited Presentation

Invited Presentation

Invited Presentation

Tom Smith **NORC**

Adapting and Applying the TSE Paradigm to All Quantitative and Qualitative Research

Paul Lavrakas Private Consulting

Infrastructure for the Use of Big Data to Understand TSE: Examples from Four Survey Research Organizations

Room: Guilford. 5th Floor

Session Chair: Fritz Scheuren

Invited Presentation Big Data Infrastructure at the Institute for Employment Research (IAB)

Antje Kirchner, Daniela Hochfellner, Stefan Bender University of Nebraska-Lincoln

Big Data Serving Survey Research: Experiences at the University of Michigan Survey Research Center

Gregg Peterson University of Michigan-Ann Arbor

Using "Big Data" to Evaluate Survey Data: Lessons Learned at the U.S. Census Bureau

Elizabeth Nichols U.S. Census Bureau Statistics New Zealand's Approach to Making Use of

Alernative Data Sources in an Era of Integrated Data

Felipa Zabala Statistics New Zealand

Assessing Survey Response Error Using Administrative Records and Evaluating Administrative Records Coverage

Session Chair: Brad Edwards

Estimating Error Rates in Administrative Registers Using Latent Variable Modeling: An Application and Validation Study

Daniel Oberski Tillburg University

Coverage of Children in Administrative Records and Census Data

Catherine Massey U.S. Census Bureau

Assessing the Effect of the Tipped Minimum Wage Using W-2 Data

Maggie Jones U.S. Census Bureau

Medicare Coverage and Reporting of the Elderly Population: A Comparison of CPS and Administrative Records

Renuka Bhaskar, James Noon, Sonya Rastogi, Brett O'Hara. Victoria Velkoff U.S. Census Bureau

Response Error and the Medicaid Undercount in the **Current Population Survey**

James Noon, Leticia Fernandez, Sonya Rastogi U.S. Census Bureau

Room: Federal Hill. 5th Floor

Improving Data Quality $B_{\it Iq}$ Data in the Era of $B_{\it Iq}$ Data

Sunday, September 20 3:45 - 5:15 p.m.

Plenary Session I

Room: Maryland B/C, 5th Floor



Big Lessons from Small Data

Colm O'Muircheartaigh, PhD University of Chicago's Harris School of Public Policy and a Senior Fellow at NORC

6:00 - 7:00 p.m.

Attendee Cocktail Reception

Room: Maryland Foyer, 5th Floor

After a full day of meetings, plan on attending the Attendee Cocktail Reception on Sunday at 6:00 p.m. to socialize and network with your colleagues before heading out to dinner in beautiful Baltimore.

Monday, September 21 9:30 - 11:30 a.m.

Plenary Session II

Room: Maryland B/C, 5th Floor



Big Data's Implications for Surveys: Ideas from an ex-Google Engineer

Abe Usher, MS, Chief Technology Officer of HumanGeo

1:30 - 3:00 p.m.

Paper Session III

Nonresponse and Measurement Error I

Room: Maryland A, 5th Floor Session Chair: Steve Cohen

Nonresponse and Measurement Bias in the American Time Use Survey

John Dixon BLS

Did MEPS Round 1 Field Period Change Designed to Improve Round 1 Response Rates Inadvertently Affect MEPS Utilization Reporting in 2011

Frances Chevarley, Karen Davis AHRO

Prepaid Incentives in ABS Surveys: Effect on Nonresponse and Measurement Errors

Meghan McQuiggan, Rebecca Medway, Mengmeng Zhang, Mahi Megra American Institutes for Research

How Much is Too Much? Considering the Impact of Survey Response Burden on Nonresponse and Measurement Errors

Mahi Megra, Mengmeng Zhang, Danielle Battle, Rebecca Medway American Institutes for Research



Invited Presentation

Conference Schedule

Errors in Web Surveys as the Main Mode

Room: Maryland E, 5th Floor

Session Chairs: Silvia Biffignandi and

Fanney Thordottir

Mixed Mode Design with Web Component in Longitudinal Studies

Annamaria Bianchi¹, Silvia Biffignandi¹, Peter Lynn² ¹University of Bergamo, ²University of Essex

Minimizing Errors in Multi-mode Surveys Through Adaptive Survey Designs

Joep Burger¹, Koen Perryck², Barry Schouten²
¹Statistics Netherlands, ²Statistics Netherlands and Utrecht University

Measurement Error and Nonresponse Error in a Mixed Mode Labor Force Survey

Anton Karlsson Statistics Iceland

A Comparison of Errors in Web Surveys Completed Through PC and Mobile Devices

Melanie Revilla¹, Daniele Toninelli², Carlos Ochoa³ ¹RECSM, Universitat Pompeu Fabra, ²University of Bergamo, ³Netquest

Discussant: TBD

Data Harmonization

Room: Homeland, 5th Floor Session Chair: Alan Karr

Using a Total Survey Error Checklist to Investigate Estimate Dissimilarity: Applications with the California Health Interview Survey

Matt Jans UCLA Center for Health Policy Research

The Total Survey Error Framework and the Survey-Quality Controls in the Data Harmonization Process

Marta Kolczynska¹, Kazimierz M. Slomczynski²

¹The Ohio State University, Polish Academy of Sciences,

²Polish Academy of Sciences, CONSIRT

Discrepancies in Self-Report Diabetes Survey Questions Using NHANES, NHIS, and CHIS Data

Sarah Lessem Centers for Disease Control and Prevention

Mixed Mode Surveys

Room: Maryland D/F, 5th Floor Session Chair: Edith de Leeuw

Mixing Modes: Tradeoffs between

Coverage, Nonresponse, and Measurement Error

Roger Tourangeau Westat

Mixed Mode Research: Issues in Design and Analysis

Joop Hox Utrecht University

Evaluating Bias of Sequential Mixed-mode Designs Against Benchmark Surveys

Thomas Klausch¹, Barry Schouten², Joop Hox¹
¹Utrecht University, ²Statistics Netherlands

Errors in Establishment Surveys

Room: Guilford, 5th Floor Session Chair: Carol House

TSE Sources and Abatement in Establishment Subpopulations

Carl Ramirez
U.S. Government Accountability Office

Responsiveness and Representativeness in an Establishment Survey of Manufacturers

Eric Fink, Joanna Fane Lineback U.S. Census Bureau

A Total Survey Error Approach to Business Surveys

Ger Snijkers¹, Gustav Haraldsen², Li-Chung Zhang³
¹Statistics Netherlands, ²Statistics Norway, ³Statistics Norway/University of Southampton





Monday, September 21 1:30 - 3:00 p.m.

Paper Session III (continued)

Applying TSE Framework to Comparative Surveys I

Room: Federal Hill, 5th Floor Session Chair: Lin Wang

A Total Survey Error Perspective on Comparative Surveys

Invited Presentation

Beth-Ellen Pennel², Kristen Cibelli Hibben², Lars Lyberg¹, Peter Mohler³, Gelaye Worku¹
¹Stockholm University, ²University of Michigan, ³University of Mannheim

360° Quality: Fitness for Use, Total Survey Error, Comparative Error and Survey Process Quality

Brad Edwards, Wendy Hicks Westat

Uncovering Different Sources of Error through Cognitive Interviews in Cross-Cultural Contexts

Alisu Schoua-Glusberg Research Support Services Inc.

Coverage and Nonresponse

Room: Gibson, 6th Floor Session Chair: Mandi Yu

The Coverage-Nonresponse Trade-off

Invited Presentation

Stephanie Eckman¹, Frauke Kreuter²

¹RTI International, ²Joint Program in Survey Methodology, University of Mannheim, IAB

Estimating Percentages or Proportions in the Presences of Undercoverage and Nonresponse

Robert Tortora ICF International

Total Survey Error: Sample Error Combined with Coverage and Nonresponse Error

David Rothschild Microsoft Research

A Validation Study on Voter Turnout Bias in Switzerland

Ben Jann, Simon Hugi University of Bern

3:30 - 5:00 p.m.

Paper Session IV

Nonresponse and Measurement Error II

Room: Maryland A, 5th Floor Session Chair: Nancy Clusen

Adjusting for Measurement Error and Nonresponse in Physical Activity Surveys: A Simulation Study

Nicholas Beyler¹, Amy Beyler² ¹Mathematica Policy Research, ²UnitedHealthcare

The Effect of Nonresponse and Measurement Error on Wage Regression Across Survey Modes: A Validation Study

Invited Presentation

Antje Kirchner¹, Barbara Felderer² ¹University of Nebraska, ²University of Mannheim

Is More Always Better? The Impact of Adaptive Design on Nonresponse and Measurement Errors

Jaki McCarthy¹, Tyler Wilson², Andrew Dau², Kathy Ott² ¹U.S. Department of Agriculture/National Agricultural Statistics Service, ²USDA/NASS

A Common Metric for Nonresponse and Measurement Error

Peter Luatia Utrecht University

Error Sources in Web Surveys

Room: Maryland E, 5th Floor Session Chair: Mark Schulman

Reducing Measurement Error in Online Surveys Through Usability Evaluation

Lin Wang U.S. Census Bureau

Web Surveys: Errors in the Process and TSE for a **Quality Perspective**

Silvia Biffignandi¹, Fanney Thorsdottir² ¹University of Bergamo, ²University of Iceland

Nonresponse and Measurement Bias in Web Surveys

Anke Metzler, Marek Fuchs Darmstadt University of Technology

Classification and Editing

Room: Homeland, 5th Floor Session Chair: Lars Lyberg

Quantifying Measurement Errors in Partially Edited Data

Invited Presentation

Thomas Laitila, Karin Lindgren, Anders Norberg, Martin Odencrants Statistics Sweden

Classification Error in Crime Victimization Surveys: A Markov Latent Class Analysis

Invited Presentation

Marcus Berzofsky, Paul Biemer RTI International

Sampling Design Alternatives for Quality Checks in the **Diabetes Prevention Program Outcome Study**

Michael Larsen The George Washington University

Effect of Missing Data on Classification Error: An Application of Two Full Information Maximum Likelihood Techniques with a Markov Latent Class **Analysis**

Susan Edwards, Marcus Berzofsky, Paul Biemer RTI International

Monday, September 21 3:30 - 5:00 p.m.

Paper Session IV (continued)

Survey Innovations in a Total Survey Error Context

Room: Maryland D/F, 5th Floor Session Chair: Peter Miller

Examining Mode Options for the Commodity Flow Survey

Joanna Lineback, Robert Ashmea, Eric Slud U.S. Census Bureau

Adaptive Design for the National Teacher and Principal Survey (NTPS)

David Marker¹, Lou Rizzo¹, Minsun Riddles¹, Erin Wiley¹, Andrew Zukerberg²

¹Westat, ²U.S. National Center for Education Statistics

Modeling the Effects of Innovation in the National Crime Victimization Survey

Joseph Schafer U.S. Census Bureau

Error and Cost Tradeoffs Involved in Innovations for Decennial Census Data Collection

Peter Miller, Mary Mulry, Gina Walejko U.S. Census Bureau

Estimating and Adjusting Survey Errors in Mixed-Mode Data, Part I

Room: Guilford, 5th Floor

Session Chair: Thomas Klausch

Estimating Unemployment Levels Using a Mix of Three Interview Modes

Bart Buelens¹, Jan van den Brakel²
¹Statistics Netherlands, ²Statistics Netherlands & Maastricht University

Mixed-Mode Inference: An Imputation Approach Incorporating Covariances between Modes

Zeynep Suzer-Gurtekin, Richard Valliant, Steven Heeringa University of Michigan

Estimating and Adjusting Bias of Sequential Mixedmode Surveys Using Re-interview Data

Thomas Klausch¹, Barry Schouten²
¹Utrecht University, ²Statistics Netherlands

Applying TSE Framework to Comparative Surveys II

Room: Federal Hill, 5th Floor Session Chair: Brad Edwards

New Ideas in Sampling for Surveys in the Developing World

Jill Dever¹, Stephanie Eckman¹, Kristen Himelein²
¹RTI International, ²World Bank

Improving Cross-National/Cultural Comparability Using the Total Survey Error Paradigm

Tom Smith NORC at the University of Chicago

Innovations in Data Collection in Resource-Poor Settings

Beth-Ellen Pennell¹, Sarah Hughes², Kristen Cibelli Hibben¹, Jennifer Kelley¹, Yu-chieh Lin¹ ¹Institute for Social Research, University of Michigan, ²NORC at the University of Chicago

Case Studies on Monitoring Interviewers' Behaviors in Cross-national and International Surveys

Zeina Mneimneh¹, Lars Lyberg², Sharan Sharma¹ ¹University of Michigan, ²Stockholm University



Analytic Error

Room: Gibson, 6th Floor

Session Chair: Clvde Tucker

The Role of Statistical Disclosure Limitation in Total Survey Error

Invited Presentation

Alan Karr RTI International

Cross-validation for Robust Variance Estimation in the Presence of Several Error Sources

Øyvind Langsrud Statistics Norway

Tuesday, September 22

9:30 - 11:30 a.m.

Paper Session V

Interactions of Survey Error and Hispanic Ethnicity II

Room: Maryland A, 5th Floor Session Chair: Sunghee Lee

When Race and Hispanic Origin Reporting are Discrepant Across Administrative Records Sources: **Exploring Methods to Assign Responses**

Sharon Ennis, Sonya Rastogi, James Noon U.S. Census Bureau

The Impact of Question Format and Respondent Background on Data Quality in a Health Survey

Aaron Maitland, David Cantor Westat

Consistency of Hispanic Origin Identification in Census 2000, 2010 Census and the American Community Survey

Leticia Fernandez, Sonya Rastogi, Renuka Bhaskar, Sharon Ennis U.S. Census Bureau

Estimating and Adjusting for Cross-Cultural Differences in Acquiescent and Extreme Response **Styles**

Mingnan Liu¹, Z. Tuba Suzer-Gurtekin², Sunghee Lee² ¹SurveyMonkey, ²University of Michigan

Considerations of Survey Error in Surveys of Hispanics

Mark Lopez¹, David Dutwin² ¹Pew Research Center, ²SSRS

Estimating Total Survey Error

Room: Maryland E, 5th Floor Session Chair: Paul Biemer

ASPIRE - An Approach for **Evaluating and Reducing the Total Error in Statistical Products**

Invited Presentation

Dennis Trewin¹, Paul Beimer², Heather Bergdahl³, Yinafu Xie³ ¹Swinburne University, ²RTI International, ³Statistic Sweden

Total Survey Error Assessment Invited Presentation for Socio-Demographic Subgroups in the 2012 National Immunization Survey

Benjamin Skalland¹, Vicki Pineau¹, Wei Zeng¹, Kirk Wolter¹, Meena Khare2, David Yankey2, Phil Smith2 ¹NORC at the University of Chicago, ²Centers for Disease Control and Prevention

Systemic and Aggregate Components of Total Error in Sample Surveys and Administrative Record Systems

John Eltinge BLS

Working Toward an Estimator for Total Survey Margin of Error

Natalie Jackson Huffington Post/Pollster.com

Comparing the Mean Square Error Between Alternative Survey Design Procedures

Gary Shapiro, Keith Rust² ¹Statistics Without Borders, ²Westat

Tuesday, September 22

9:30 - 11:30 a.m.

Paper Session V (continued)

Measurement Error

Room: Homeland, 5th Floor

Session Chair: James Wagner

Comparing the Quality of 2010 Census Proxy Responses with Administrative Records

Mary Mulry, Andrew D. Keller U.S. Census Bureau

Measuring Financial Literacy in a Large-Scale General Survey

Jonas Beste, Arne Bethmann Institute for Employment Research

The Influence of an Up-Front Experiment on Respondents' Recording Behaviour in Payment Diaries: Evidence from Germany

Tobias Schmidt, Susann Kuehn Deutsche Bundesbank

Room for Error:

Rating Scale Inconsistencies and Solutions

Joseph Goldman The Gallup Organization

The Multi-Trait Multi-Error Approach to Estimating Measurement Error

Alexandru Cernat¹, Daniel Oberski²
¹University of Essex, ²Tilburg University

Does Big Data Mean Lower Quality Data?

Room: Maryland D/F, 5th Floor Session Chair: Alan Karr

Relationships Between Data Quality and Confidentiality

Jerome Reiter
Duke University

Total Error and the Analysis of Big Data: Why Size Doesn't Matter

Paul Biemer

RTI International and University of North Carolina

Discussant: Alan Karr, RTI International

Dealing With Nonsampling Error in PIAAC

Room: Pride of Baltimore, 6th Floor Session Chair: Tom Krenzke

Associations Between Interviewer Insights and Proficiency Scores

Michael LeMay, Richard Sigman, Tom Krenzke Westat

PIAAC Japan Nonresponse Bias Analysis

Takahiro Tsuchiya The Institute of Statistical Mathematics

Treatment of Inaccessible Sampling Units in an International Survey of Adult Competencies

Leyla Mohadjer Westat

Is Self-reported Health Status at the Time of Interview Associated with Respondents' Performance on the Assessment?

Lin Li, Tom Krenzke, Martha Rozsi, Leyla Mohadjer Westat

Discussant: Lars Lyberg, Stockholm University



Uses of Geographic Information Systems Tools in Survey Data Collection & Analysis

Room: Kent, 6th Floor

Session Chair: Ned English

Virtual Canvassing: In-Office Methods for Validating the Census Bureau's Address List for the 2020 Census

Michael Ratcliffe, Shonin Anacker, April Avnayim, Christopher Henrie, Tiernan Erickson, Dakota Schuck U.S. Census Bureau

Using GIS to Understand Error Sources in a Web Survey

Ned English, Michael Stern, Ipek Bilgen, Ilana Ventura NORC at the University of Chicago

The Role of Geographic Information in Minimizing TSE for a Large-scale Natural Resource Survey

Emily Berg, Sarah Nusser, Alan Dotts, Zhengyuan Zhu Iowa State University

Using Geospatial Analysis to Inform Household Survey Design Decisions and Harvest Sample Efficiencies

Aliza Kwiat, Rosemary Byrne U.S. Census Bureau

The Value of Self-reported Frequently Visited Addresses in GPS Assisted Travel Surveys

Timothy Michalowski, Dara Seidl, Rena Peña Abt SRBI

Paradata and Responsive Design

Room: Gibson. 6th Floor

Session Chair: Raphael Nishimura

Using Paradata to Monitor Interviewer Behavior and Reduce Survey Error

Invited Presentation

Nicole Kirgis, Zeina Mneimneh, Yan Sun, Jay Lin, Shonda Kruger Ndiaye

Institute for Social Research

Measurement Error in Survey **Operations Management:**

Invited Presentation

Detection, Quantification, Visualization and Reduction

Brad Edwards Westat

Measurement Error in American Community Survey Paradata and 2014 Redesign of the Contact History Instrument

Matthew Virgile, Rachael Walsh U.S. Census Bureau

Noon - 1:30 p.m.

Plenary Session III

The Future of Political Polling

Room: Maryland B/C, 5th Floor



Presenter: Cliff Zukin,

professor of public policy and political science at the School for Planning and Public Policy and the Eagleton Institute of Politics, Rutgers University.



Commentator: Andrew Gelman,

professor of statistics and political science and director of the Applied Statistics Center at Columbia University



Commentator: Scott Keeter, director of survey research at

Pew Research Center

Moderator: Nancy Belden



partner at Belden Russonello Strategists, Past President of AAPOR

Tuesday, September 22

1:30 - 3:30 p.m.

Paper Session VI

Nonprobability Sampling Methods from a Total Survey Error Perspective

Room: Maryland A, 5th Floor

Session Chair: Raphael Nishmura

Probabilistic Sampling with Quotas: A New Look at an Old Method

Neale El-Dash Sleek Data

An Empirical Evaluation of Respondent Driven Sampling from a Total Survey Error Perspective

Zeynep Suzer-Gurtekin, Sunghee Lee University of Michigan

The Utility of Weighting Methods for Reducing Errors in Opt-in Web Studies

Jill Dever, Bonnie Shook-Sa RTI International

Probability Samples - Meet Your Match! A Comparison of Two Distance Measures for Linking Non-probability and Probability Based Samples

Trent Buskirk¹, David Dutwin² Marketing Systems Group¹, SSRS² Teaching TSE & Big Data:

Presentations and Roundtable Discussion

Room: Maryland E, 5th Floor

Session Chair: Beth-Ellen Pennell

The Survey Octopus: Creating Better Conversations About Total Survey Error with Non-specialists

Caroline Jarrett Effortmark Ltd.

Survey Methodology Courses and TSE/Big Data Issues: Classroom Experiences Among University Instructors

Wojciech Jablonski University of Lodz

Introducing an International System of Online Courses in Survey Methodology and Big Data

Frauke Kreuter University of Maryland

Mobile Surveys

Room: Homeland, 5th Floor

Session Chair: Edith de Leeuw

Smartphone Participation in Web Surveys: Choosing Between

the Potential for Coverage, Nonresponse and Measurement Error

Gregg Peterson¹, John LaFrance¹, **Jamie Griffin²**, JiaoJiao Li³

¹Institute for Social Research, ²University of Michigan,

³Market Strategies International

Text Interviews on Mobile Devices

Invited Presentation

Invited Presentation

Frederick Conrad, Michael F. Schober, Christopher Antoun, Andrew L. Hupp Institute for Social Research

Mobile Web Surveys: A Total Survey Error Perspective

Mick P. Couper, Christopher Antoun, Aigul Mavletova Institute for Social Research



Big Data from TSE Perspective

Room: Maryland D/F, 5th Floor Session Chair: Peter Lugtig

Decomposing Twitter from a **Total Survey Error Perspective** **Invited Presentation**

Invited Presentation

Joe Murphy RTI International

Big Data:

A Survey Research Perspective

Reginald Baker Marketing Research Institute International

Creating a New Variable as a Means of Assessing the Item External Validity by Using Big Data

Andrei Veikher NRU HSE - St. Petersburg

Examining Big Data in the Total Survey Error Framework: A Synthesis of the Current Research

Celeste Stone, Cong Ye, Ahmad Emad American Institutes for Research (AIR)

Estimating and Adjusting Survey Errors in Mixed-Mode Data, Part II

Room: Pride of Baltimore, 6th Floor Session Chair: Thomas Klausch

Estimating Components of Mean-Squared Error as a Means to Evaluate Mixed-Mode Solutions to Noncoverage Error in Telephone Surveys

Caroline Vandenplas¹, Caroline Roberts², Rosa Sanchez Tome³, Michèle Ernst Staehli⁴, Dominique Joye³ Center for Sociological Research, University of Leuven, ¹Leuven, Belgium, ²University of Lausanne, ³Switzerland, University of Lausanne, 4FORS, Switzerland

Mode Effects in American Trends Panel: A Closer Look at the Person-Level and Item-Level Characteristics

Stanislav Kolenikov¹, Kyley McGeeney², Scott Keeter², Courtney Kennedy¹ ¹Abt SRBI, ²Pew Research Center

Comparison of the Quality Estimates in a Mixed-Mode and a Unimode Design: An Experiment from the **European Social Survey**

Melanie Revilla RECSM, Universitat Pompeu Fabra

Mode Preference as a Covariate for Estimating Mode Effects

Caroline Vandenplas¹, Jorre Vannieuwenhuyze² Center for Sociological Research, University of Leuven, Leuven, Belgium¹, University of Utrecht²

Adaptive Design

Room: Kent, 6th Floor

Session Chair: Meena Khare

The Effects of a Mid-Data Collection Invited Presentation Change in Financial Incentives on Total Survey Error in the National Survey of Family Growth: Results from a Randomized Experiment

James Wagner, Brady West, Heidi Guyer, Frost Hubbard, Jennifer Kelley, Mick Couper, William Mosher Institute for Social Research

Targeted Sampling, Mixed Mode, Incentives, and Paying for Completion: What Works for Reaching Hard to Survey Low Income Households with Civil Legal Needs?

Danna Moore Washington State University

Reducing Bias and Sampling Error: Using Simulation to Identify Effective Adaptive Design Strategies for the **Crops Agricultural Production Survey**

Herschel Lisette Sanders¹, James Wagner², Jaki McCarthy³, Ji Qi², Frauke Kreuter¹ ¹RTI International, ²University of Michigan, ³USDA-NASS

Meeting Adjourns



www.forscenter.ch

FORS is the Swiss national center of expertise in the social sciences. FORS enhances and supports work in the social sciences by conducting survey and methodological secondary analysis.

Its primary activities consist of:

Producing survey data, including national and international surveys Research on methods in empirical social sciences, with focus on survey methodology Disseminating data for use in secondary analysis

FORS services include:

Data and Research Information Services - DARIS Communication Portal for Accessing Social Statistics - COMPASS International Surveys - ESS, EVS, ISSP, SHARE Swiss Household Panel (SHP) Swiss Electoral Study (Selects) **Swiss Social Report**



FORS Géopolis, 1015 Lausanne, Switzerland • T. +41 21 692 37 31 • www.forscenter.ch





Improving Lives Through Research®

We are an enthusiastic sponsor of the **2015 International Total Survey Error Conference** and the conference app.

Check the program for invited presentations by **Brad Edwards**, **Roger Tourangeau** and **Ting Yan**.

POLICY ISSUES ARE COMPLEX.

OUR APPROACH IS COMPREHENSIVE.



Mathematica's multidisciplinary survey research teams bring together experts in survey methodology, social and economic policy, statistics, and data management and analytics to study and inform pressing policy issues.

We apply methodological innovation and sophisticated survey design to our studies in disability, early childhood, education, family support, health, labor, and nutrition to support evidence-based decision making in the United States and internationally.

MATHEMATICA Policy Research

www.mathematica-mpr.com

Princeton, NJ • Ann Arbor, MI • Cambridge, MA Chicago, IL • Oakland, CA • Washington, DC



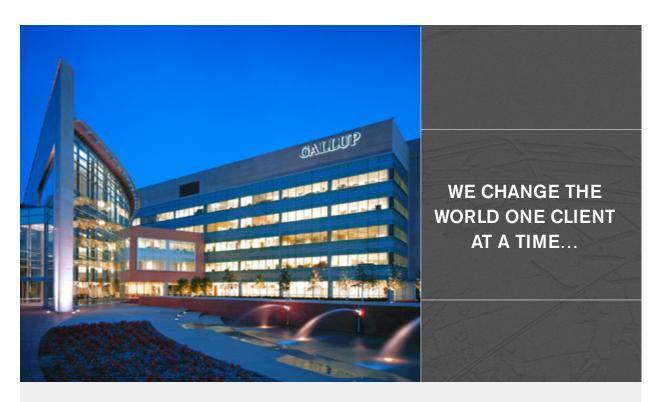


NORC at the University of Chicago is an independent research institution that delivers reliable data and rigorous analysis to guide critical decisions.



DOWNTOWN CHICAGO | UNIVERSITY OF CHICAGO | DC METRO | ATLANTA | BOSTON | SAN FRANCISCO

www.norc.org | info@norc.org



We change the world one client at a time through extraordinary analytics and advice on everything important facing humankind.



COMPREHENSIVE
END-TO-END CONSUMER
INSIGHTS FOR FASTER,
SMARTER, BETTER
DECISIONS TO HELP YOUR
BUSINESS GROW.

Whether you're eyeing markets in the next town or across continents, we understand the importance of knowing what consumers watch and buy. That's our passion and the very heart of our business.

We study consumers in more than 100 countries to give you the most complete view of trends and habits worldwide. And we're constantly evolving; not only in terms of where we measure, or who we measure, but in how our insights can help you drive profitable growth.

So let's put our heads together. We'll bring our insight to your business and help you grow.

nielsen

AN UNCOMMON SENSE OF THE CONSUMER™

