

WILEY SERIES IN PROBABILITY AND STATISTICS

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# Methodological Developments in Data Linkage



Editors

Katie Harron • Harvey Goldstein • Chris Dibben

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WILEY

# Methodological Developments Linkage Probability Statistics

**Katie Harron, Harvey Goldstein, Chris  
Dibben**



## **Methodological Developments Linkage Probability Statistics:**

**Methodological Developments in Data Linkage** Katie Harron, Harvey Goldstein, Chris Dibben, 2015-09-22 A comprehensive compilation of new developments in data linkage methodology The increasing availability of large administrative databases has led to a dramatic rise in the use of data linkage yet the standard texts on linkage are still those which describe the seminal work from the 1950 60s with some updates Linkage and analysis of data across sources remains problematic due to lack of discriminatory and accurate identifiers missing data and regulatory issues Recent developments in data linkage methodology have concentrated on bias and analysis of linked data novel approaches to organising relationships between databases and privacy preserving linkage Methodological Developments in Data Linkage brings together a collection of contributions from members of the international data linkage community covering cutting edge methodology in this field It presents opportunities and challenges provided by linkage of large and often complex datasets including analysis problems legal and security aspects models for data access and the development of novel research areas New methods for handling uncertainty in analysis of linked data solutions for anonymised linkage and alternative models for data collection are also discussed Key Features Presents cutting edge methods for a topic of increasing importance to a wide range of research areas with applications to data linkage systems internationally Covers the essential issues associated with data linkage today Includes examples based on real data linkage systems highlighting the opportunities successes and challenges that the increasing availability of linkage data provides Novel approach incorporates technical aspects of both linkage management and analysis of linked data This book will be of core interest to academics government employees data holders data managers analysts and statisticians who use administrative data It will also appeal to researchers in a variety of areas including epidemiology biostatistics social statistics informatics policy and public health

## **Advances in Longitudinal Survey**

**Methodology** Peter Lynn, 2021-03-22 Advances in Longitudinal Survey Methodology Explore an up to date overview of best practices in the implementation of longitudinal surveys from leading experts in the field of survey methodology Advances in Longitudinal Survey Methodology delivers a thorough review of the most current knowledge in the implementation of longitudinal surveys The book provides a comprehensive overview of the many advances that have been made in the field of longitudinal survey methodology over the past fifteen years as well as extending the topic coverage of the earlier volume Methodology of Longitudinal Surveys published in 2009 This new edited volume covers subjects like dependent interviewing interviewer effects panel conditioning rotation group bias measurement of cognition and weighting New chapters discussing the recent shift to mixed mode data collection and obtaining respondents consent to data linkage add to the book's relevance to students and social scientists seeking to understand modern challenges facing data collectors today Readers will also benefit from the inclusion of A thorough introduction to refreshment sampling for longitudinal surveys including consideration of principles sampling frame sample design questionnaire design and frequency An exploration of the

collection of biomarker data in longitudinal surveys including detailed measurements of ill health biological pathways and genetics in longitudinal studies An examination of innovations in participant engagement and tracking in longitudinal surveys including current practices and new evidence on internet and social media for participant engagement An invaluable source for post graduate students professors and researchers in the field of survey methodology Advances in Longitudinal Survey Methodology will also earn a place in the libraries of anyone who regularly works with or conducts longitudinal surveys and requires a one stop reference for the latest developments and findings in the field German Medical Data Sciences: A Learning Healthcare System U. Hübner,U. Sax,H.-U. Prokosch,2018-09-06 Advances in digital and information technology have meant that medical informatics and its associated fields are of ever increasing importance in the modern healthcare environment This book presents selected papers from the 63rd annual conference of the German Society of Medical Information Sciences Biometry and Epidemiology GMDS 2018 held in Osnabr ck Germany in September 2018 The society encompasses not only medical informatics biometry and epidemiology but also medical bioinformatics systems biology and health data management The title of this year s conference is The Learning Health System Research Based Innovative Connecting and 38 full papers of the 164 oral presentations and 65 posters delivered at the conference are included here A wide variety of scientific topics are covered including standards to enable the interoperable interchange of information metadata management record linkage IT issues for health care networks interprofessional teaching and training eHealth legislation analysis of miRNAs and RNA Seq data among others The contributors are all specialists in their field and this book disseminates some of the innovative ideas which are urgently needed to meet the challenges facing a constantly developing digital healthcare environment **Analysis of Integrated Data** Li-Chun Zhang,Raymond L. Chambers,2019-04-18 The advent of Big Data has brought with it a rapid diversification of data sources requiring analysis that accounts for the fact that these data have often been generated and recorded for different reasons Data integration involves combining data residing in different sources to enable statistical inference or to generate new statistical data for purposes that cannot be served by each source on its own This can yield significant gains for scientific as well as commercial investigations However valid analysis of such data should allow for the additional uncertainty due to entity ambiguity whenever it is not possible to state with certainty that the integrated source is the target population of interest Analysis of Integrated Data aims to provide a solid theoretical basis for this statistical analysis in three generic settings of entity ambiguity statistical analysis of linked datasets that may contain linkage errors datasets created by a data fusion process where joint statistical information is simulated using the information in marginal data from non overlapping sources and estimation of target population size when target units are either partially or erroneously covered in each source Covers a range of topics under an overarching perspective of data integration Focuses on statistical uncertainty and inference issues arising from entity ambiguity Features state of the art methods for analysis of integrated data Identifies the important themes that will define future research and teaching in

the statistical analysis of integrated data Analysis of Integrated Data is aimed primarily at researchers and methodologists interested in statistical methods for data from multiple sources with a focus on data analysts in the social sciences and in the public and private sectors

**Statistical Theory and Method Abstracts** ,1997      **Proceedings of the Section on Survey Research Methods** American Statistical Association. Survey Research Methods Section,1994      **Readings in Population Research Methodology: Mortality research** Donald J. Bogue,Eduardo E. Arriaga,Douglas L. Anderton,1993

Survey Methodology ,2005      **Proceedings of the Social Statistics Section** American Statistical Association. Social Statistics Section,1981      *Bulletin de L'Institut International de Statistique* ,1987      **The Lancet** ,2005      Statistical Uses of Administrative Data John William Coombs,M. P. Singh,1988 This symposium examines the developments challenges and issues associated with the acquisition and growing use of administrative records for statistical purposes

**Annual Report** Small Ruminant Collaborative Research Support Program,1997      **Proceedings of the Section on Statistical Education** American Statistical Association. Section on Statistical Education,1984      Results of the Methodological Studies for Agricultural and Rural Statistics Asian Development Bank,2016 This report is a component of ADB s technical assistance project implemented as a contribution to the Global Strategy to Improve Agricultural and Rural Statistics for enhanced food security in Asia and the Pacific It summarizes the outcomes of the collaboration of ADB and the implementing agencies of Bhutan the Lao People s Democratic Republic the Philippines and Viet Nam to address current gaps in the production of agricultural and rural statistics

The Zoological Record ,2002      Statistical Methodology Reviews Oscar Krisen Bueros,1941      **Bulletin - Institute of Mathematical Statistics** Institute of Mathematical Statistics,1995

**Proceedings of the Statistical Computing Section** American Statistical Association. Statistical Computing Section,1999 Papers presented at the annual meeting of the American Statistical Association      **The Role of the Computer in Economic and Social Research in Latin America** National Bureau of Economic Research,1974 Latin America Compilation of conference papers on the role of EDP in microeconomics and macroeconomics research methodology describes computer applications such as data bases simulation economic models statistical analysis comparison etc

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