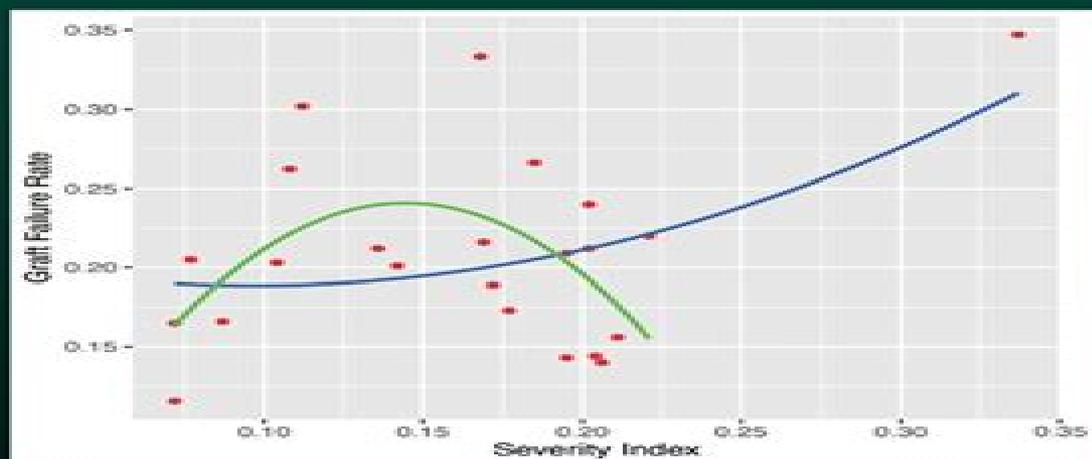


# Robust Small Area Estimation

Methods, Theory, Applications,  
and Open Problems



**Jiming Jiang**  
**J. Sunil Rao**

# Small Area Estimation Methods And Applications

**Paolo Postiglione, Roberto  
Benedetti, Federica Piersimoni**



## **Small Area Estimation Methods And Applications:**

Missing Data and Small-Area Estimation Nicholas T. Longford, 2005-08-05 This book evolved from lectures courses and workshops on missing data and small area estimation that I presented during my tenure as the first Copley Fellow 2000-2002. For the Fellowship I proposed these two topics as areas in which the academic statistics could contribute to the development of government statistics in exchange for access to the operational details and background that would inform the direction and sharpen the focus of a demographic research. After a few years of involvement I have come to realise that the separation of academic and industrial statistics is not well suited to either party and their integration is the key to progress in both branches. Most of the work on this monograph was done while I was a visiting lecturer at Massey University Palmerston North New Zealand. The hospitality and stimulating academic environment of their Institute of Information Science and Technology is gratefully acknowledged. I could not name all those who commented on my lecture notes and on the presentations themselves apart from them I want to thank the organisers and silent attendees of all the events and with a modicum of reluctance the greybeards who kept inquiring whether I was any nearer the completion of whatever stage I had been foolish enough to attach a date.

*Small Area Estimation* J. N. K. Rao, Isabel Molina, 2015-08-24 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

Research Handbook on Measuring Poverty and Deprivation Jacques Silber,2023-03-02 Encompassing chapters that address both unidimensional and multidimensional poverty this timely Research Handbook explores all aspects of poverty and deprivation measurement not only detailing broad issues but also scrutinising specific domains and aspects of poverty such as health energy and housing Its succinct and highly focussed chapters written by a diverse range of authors employ a combination of theoretical and empirical methodologies to offer well rounded explorations of complex topics

**Spatial Econometric Methods in Agricultural Economics Using R** Paolo Postiglione,Roberto Benedetti,Federica Piersimoni,2021-12-22 Modern tools such as GIS and remote sensing are increasingly used in the monitoring of agricultural resources The developments in GIS technology offer growing opportunities to agricultural economics analysts dealing with large and detailed spatial databases allowing them to combine spatial information from different sources and to produce different models The availability of these valuable sources of information makes the advanced models suggested in the spatial statistic and econometric literature applicable to agricultural economics This book aims at supporting stakeholders to design spatial surveys for agricultural data and or to analyse the geographically collected data This book attempts to describe the main typology of agricultural data and the most appropriate methods for the analysis together with a detailed description of the available data sources and their collection methods Topics such as spatial interpolation point patterns spatial autocorrelation survey data analysis small area estimation regional data modelling and spatial econometrics techniques are covered jointly with issues arising from the integration of several data types The theory of spatial methods is complemented by real and or simulated examples implemented through the open source software R

**Handbook of Statistics\_29B: Sample Surveys: Inference and Analysis** ,2000 **Small Area Estimation** J. N. K. Rao,2005-02-25 An accessible introduction to indirect estimation methods both traditional and model based Readers will also find the latest methods for measuring the variability of the estimates as well as the techniques for model validation Uses a basic area level linear model to illustrate the methods Presents the various extensions including binary response data through generalized linear models and time series data through linear models that combine cross sectional and time series features Provides recent applications of SAE including several in U S Federal programs Offers a comprehensive discussion of the design issues that impact SAE

*Robust Small Area Estimation* Jiming Jiang,J. Sunil Rao,2025-08-20 In recent years there has been substantial and growing interest in small area estimation SAE that is largely driven by practical demands Here the term small area typically refers to a subpopulation or domain of interest for which a reliable direct estimate based only on the domain specific sample cannot be produced due to small sample size in the domain Keywords in SAE are borrowing strength Because there are insufficient samples from the small areas to produce reliable direct estimates statistical methods are

sought to utilize other sources of information to do better than the direct estimates A typical way of borrowing strength is via statistical modelling On the other hand there is no free lunch Yes one can do better by borrowing strength but there is a cost This is the main topic discussed in this text Features A comprehensive account of methods applications as well as some open problems related to robust SAE Methods illustrated by worked examples and case studies using real data Discusses some advanced topics including benchmarking Bayesian approaches machine learning methods missing data and classified mixed model prediction Supplemented with code and data via a website Robust Small Area Estimation Methods Applications and Open Problems is primarily aimed at researchers and graduate students of statistics and data science and would also be suitable for geography and survey methodology researchers The practical approach should help persuade practitioners such as those in government agencies to more readily adopt robust SAE methods It could be used to teach a graduate level course to students with a background in mathematical statistics

### **A Course on Small Area Estimation and Mixed Models**

Domingo Morales, María Dolores Esteban, Agustín Pérez, Tomáš Hobza, 2021-03-12 This advanced textbook explores small area estimation techniques covers the underlying mathematical and statistical theory and offers hands on support with their implementation It presents the theory in a rigorous way and compares and contrasts various statistical methodologies helping readers understand how to develop new methodologies for small area estimation It also includes numerous sample applications of small area estimation techniques The underlying R code is provided in the text and applied to four datasets that mimic data from labor markets and living conditions surveys where the socioeconomic indicators include the small area estimation of total unemployment unemployment rates average annual household incomes and poverty indicators Given its scope the book will be useful for master and PhD students and for official and other applied statisticians

Sample Surveys: Inference and Analysis, 2009-09-02 Handbook of Statistics\_29B contains the most comprehensive account of sample surveys theory and practice to date It is a second volume on sample surveys with the goal of updating and extending the sampling volume published as volume 6 of the Handbook of Statistics in 1988 The present handbook is divided into two volumes 29A and 29B with a total of 41 chapters covering current developments in almost every aspect of sample surveys with references to important contributions and available software It can serve as a self contained guide to researchers and practitioners with appropriate balance between theory and real life applications Each of the two volumes is divided into three parts with each part preceded by an introduction summarizing the main developments in the areas covered in that part Volume 1 deals with methods of sample selection and data processing with the later including editing and imputation handling of outliers and measurement errors and methods of disclosure control The volume contains also a large variety of applications in specialized areas such as household and business surveys marketing research opinion polls and censuses Volume 2 is concerned with inference distinguishing between design based and model based methods and focusing on specific problems such as small area estimation analysis of longitudinal data categorical data analysis and inference on distribution functions The volume

contains also chapters dealing with case control studies asymptotic properties of estimators and decision theoretic aspects Comprehensive account of recent developments in sample survey theory and practice Covers a wide variety of diverse applications Comprehensive bibliography **Proceedings**, 1994 **Value Added Modeling and Growth Modeling with Particular Application to Teacher and School Effectiveness** Robert W. Lissitz, Hong Jiao, 2014-12-01 This book explores student growth modeling and teacher value added modeling addressing complexities like non random student assignment measurement errors and covariates It presents the latest methods and answers key questions on evaluating growth models and teacher effectiveness **Proceedings of the Section on Survey Research Methods** American Statistical Association. Survey Research Methods Section, 1993 **Poverty and Social Exclusion** Gianni Betti, Achille Lemmi, 2013-07-18 Poverty and inequality remain at the top of the global economic agenda and the methodology of measuring poverty continues to be a key area of research This new book from a leading international group of scholars offers an up to date and innovative survey of new methods for estimating poverty at the local level as well as the most recent multidimensional methods of the dynamics of poverty It is argued here that measures of poverty and inequality are most useful to policy makers and researchers when they are finely disaggregated into small geographic units Poverty and Social Exclusion New Methods of Analysis is the first attempt to compile the most recent research results on local estimates of multidimensional deprivation The methods offered here take both traditional and multidimensional approaches with a focus on using the methodology for the construction of time related measures of deprivation at the individual and aggregated levels In analysis of persistence over time the book also explores whether the level of deprivation is defined in terms of relative inequality in society or in relation to some supposedly absolute standard This book is of particular importance as the continuing international economic and financial crisis has led to the impoverishment of segments of population as a result of unemployment bankruptcy and difficulties in obtaining credit The volume will therefore be of interest to all those working on economic econometric and statistical methods and empirical analyses in the areas of poverty social exclusion and income inequality **Current Index to Statistics, Applications, Methods and Theory**, 1999 The Current Index to Statistics CIS is a bibliographic index of publications in statistics probability and related fields **ICSA 2019** Farit Mochamad Afendi, Kusman Sadik, Utami Dyah Syafitri, 2019-08-02 This conference serves as a means of presenting and discussing various research results among academics researchers and practitioners in the fields of statistics analytics computing data science and its application Based on 110 papers that have been presented there are three main topics as the focus of the discussion namely Statistical Modeling Predictive Analytics and Pattern Learning The approach is in the form of a study to obtain a valid methodology for extracting collecting storing analyzing and visualizing data including those derived from big data The application studies cover various fields such as agriculture climate energy industry business social and so on The conference is expected to be able to provide solutions to various problems in various fields through statistical and analytical approaches **Analysis of**

**Poverty Data by Small Area Estimation** Monica Pratesi, 2015-12-29 A comprehensive guide to implementing SAE methods for poverty studies and poverty mapping There is an increasingly urgent demand for poverty and living conditions data in relation to local areas and or subpopulations Policy makers and stakeholders need indicators and maps of poverty and living conditions in order to formulate and implement policies re distribute resources and measure the effect of local policy actions Small Area Estimation SAE plays a crucial role in producing statistically sound estimates for poverty mapping This book offers a comprehensive source of information regarding the use of SAE methods adapted to these distinctive features of poverty data derived from surveys and administrative archives The book covers the definition of poverty indicators data collection and integration methods the impact of sampling design weighting and variance estimation the issue of SAE modelling and robustness the spatio temporal modelling of poverty and the SAE of the distribution function of income and inequalities Examples of data analyses and applications are provided and the book is supported by a website describing scripts written in SAS or R software which accompany the majority of the presented methods Key features Presents a comprehensive review of SAE methods for poverty mapping Demonstrates the applications of SAE methods using real life case studies Offers guidance on the use of routines and choice of websites from which to download them Analysis of Poverty Data by Small Area Estimation offers an introduction to advanced techniques from both a practical and a methodological perspective and will prove an invaluable resource for researchers actively engaged in organizing managing and conducting studies on poverty

**Survey Methodology**, 2002      **Basic Methods for Preparing Small-area Population Estimates**  
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