

Lecture Notes in Statistics

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Zehua Chen Zhidong Bai
Bimal K. Sinha

Ranked Set Sampling

Theory and Applications



Springer

Ranked Set Sampling Theory And Applications

**Michel Bilodeau, Fernand Meyer, Michel
Schmitt**



Ranked Set Sampling Theory And Applications:

Ranked Set Sampling Zehua Chen, Zhidong Bai, Bimal Sinha, 2013-03-09 This monograph is the first book length exposition of ranked set sampling But the subject matter is by no means new The original notion of ranked set sampling though not the technical term was proposed by McIntyre in 1952 It was buried in the literature for quite a while Its value was only re discovered in recent years because of its cost effective nature Now ranked set sampling has attracted practical interest in application areas such as agriculture forestry ecological and environmental science and medical studies etc The theoretical foundations of the method has also been developed considerably particularly during the last 15 years or so A systematic exposition of the subject becomes necessary This book covers every development of RSS since the birth of the original idea Statistical inferences based on RSS are investigated from the originally intended estimation of a population mean to many more complicated procedures such as the inferences on smooth function of means quantiles and density functions the distribution free tests and regression analyses Various variants of the original RSS scheme are explored including RSS with imperfect judgment ranking or ranking by concomitant variables adaptive RSS multi layer RSS and a variety of unbalanced RSS with certain optimalities

Survey Sampling Theory and Applications Raghunath Arnab, 2017-03-08 Survey Sampling Theory and Applications offers a comprehensive overview of survey sampling including the basics of sampling theory and practice as well as research based topics and examples of emerging trends The text is useful for basic and advanced survey sampling courses Many other books available for graduate students do not contain material on recent developments in the area of survey sampling The book covers a wide spectrum of topics on the subject including repetitive sampling over two occasions with varying probabilities ranked set sampling Fays method for balanced repeated replications mirror match bootstrap and controlled sampling procedures Many topics discussed here are not available in other text books In each section theories are illustrated with numerical examples At the end of each chapter theoretical as well as numerical exercises are given which can help graduate students Covers a wide spectrum of topics on survey sampling and statistics Serves as an ideal text for graduate students and researchers in survey sampling theory and applications Contains material on recent developments in survey sampling not covered in other books Illustrates theories using numerical examples and exercises

Ranked Set Sampling Carlos N. Bouza-Herrera, Amer Ibrahim Falah Al-Omari, 2018-10-16 Ranked Set Sampling 65 Years Improving the Accuracy in Data Gathering is an advanced survey technique which seeks to improve the likelihood that collected sample data presents a good representation of the population and minimizes the costs associated with obtaining them The main focus of many agricultural ecological and environmental studies is the development of well designed cost effective and efficient sampling designs giving RSS techniques a particular place in resolving the disciplinary problems of economists in application contexts particularly experimental economics This book seeks to place RSS at the heart of economic study designs Focuses on how researchers should manipulate RSS

techniques for specific applications Discusses RSS performs in popular statistical models such as regression and hypothesis testing Includes a discussion of open theoretical research problems Provides mathematical proofs enabling researchers to develop new models *Ranked Set Sampling Models and Methods* Bouza-Herrera, Carlos N.,2021-08-06 When it comes to data collection and analysis ranked set sampling RSS continues to increasingly be the focus of methodological research This type of sampling is an alternative to simple random sampling and can offer substantial improvements in precision and efficient estimation There are different methods within RSS that can be further explored and discussed On top of being efficient RSS is cost efficient and can be used in situations where sample units are difficult to obtain With new results in modeling and applications and a growing importance in theory and practice it is essential for modeling to be further explored and developed through research *Ranked Set Sampling Models and Methods* presents an innovative look at modeling survey sampling research and new models of RSS along with the future potentials of it The book provides a panoramic view of the state of the art of RSS by presenting some previously known and new models The chapters illustrate how the modeling is to be developed and how they improve the efficiency of the inferences The chapters highlight topics such as bootstrap methods fuzzy weight ranked set sampling method item count technique stratified ranked set sampling and more This book is essential for statisticians social and natural science scientists physicians and all the persons involved with the use of sampling theory in their research along with practitioners researchers academicians and students interested in the latest models and methods for ranked set sampling Handling Missing Data in Ranked Set Sampling Carlos N.

Bouza-Herrera,2013-10-04 The existence of missing observations is a very important aspect to be considered in the application of survey sampling for example In human populations they may be caused by a refusal of some interviewees to give the true value for the variable of interest Traditionally simple random sampling is used to select samples Most statistical models are supported by the use of samples selected by means of this design In recent decades an alternative design has started being used which in many cases shows an improvement in terms of accuracy compared with traditional sampling It is called Ranked Set Sampling RSS A random selection is made with the replacement of samples which are ordered ranked The literature on the subject is increasing due to the potentialities of RSS for deriving more effective alternatives to well established statistical models In this work the use of RSS sub sampling for obtaining information among the non respondents and different imputation procedures are considered RSS models are developed as counterparts of well known simple random sampling SRS models SRS and RSS models for estimating the population using missing data are presented and compared both theoretically and using numerical experiments *Methods and Applications of Statistics in the Atmospheric and Earth Sciences* Narayanaswamy Balakrishnan,2012-11-19 Explore the classic and cutting edge quantitative methods for understanding environmental science research Based on the multifaceted 16 volume Encyclopedia of Statistical Sciences Second Edition *Methods and Applications of Statistics in the Atmospheric and Earth Sciences* offers guidance on the

application of statistical methods for conducting research in these fields of study With contributions from more than 100 leading experts in academia and industry this volume combines key articles from the Encyclopedia with newly developed topics addressing some of the more critical issues including pollution droughts and volcanic activity Readers will gain a thorough understanding of cutting edge methods for the acquisition and analysis of data across a wide range of subject areas from geophysics geology and biogeography to meteorology forestry agriculture animal science and ornithology The book features new and updated content on quantitative methods and their use in understanding the latest topics in social research including Drought Analysis and Forecasting Childhood Obesity Ranked Set Sampling Methodology for Environmental Data Species Richness and Shared Species Richness Geographic Information Systems Each contribution offers authoritative yet easily accessible coverage of statistical concepts With updated references and discussion of emerging topics readers are provided with the various statistical methods techniques strategies and applications that are essential for tackling critical issues in environmental science research Featuring a balance of classical and cutting edge methodologies **Methods and Applications of Statistics in the Atmospheric and Earth Sciences** is an excellent resource for researchers professionals and students in the fields of sociology psychology philosophy education political science and the related disciplines who would like to learn about the uses of statistics in gathering reporting and analyzing data

Development of Modern Statistics and Related Topics Heping Zhang,Yaoting Zhang,Jian Huang,2003 This book encompasses a wide range of important topics The articles cover the following areas asymptotic theory and inference biostatistics economics and finance statistical computing and Bayesian statistics and statistical genetics Specifically the issues that are studied include large deviation deviation inequalities local sensitivity of model misspecification in likelihood inference empirical likelihood confidence intervals uniform convergence rates in density estimation randomized designs in clinical trials MCMC and EM algorithms approximation of p values in multipoint linkage analysis use of mixture models in genetic studies and design and analysis of quantitative traits

Data Science: Theory and Applications ,2021-02-12 Data Science Theory and Applications Volume 44 in the Handbook of Statistics series highlights new advances in the field with this new volume presenting interesting chapters on a variety of interesting topics including Modeling extreme climatic events using the generalized extreme value distribution Bayesian Methods in Data Science Mathematical Modeling in Health Economic Evaluations Data Science in Cancer Genomics Blockchain Technology Theory and Practice Statistical outline of animal home ranges an application of set estimation Application of Data Handling Techniques to Predict Pavement Performance Analysis of individual treatment effects for enhanced inferences in medicine and more Additional sections cover Nonparametric Data Science Testing Hypotheses in Large Complex Data From Urban Mobility Problems to Data Science Solutions and Data Structures and Artificial Intelligence Methods Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in the Handbook of Statistics series Updated release includes the latest information on

Data Science Theory and Applications **Statistical Quality Technologies** Yuhlong Lio, Hon Keung Tony Ng, Tzong-Ru Tsai, Ding-Geng Chen, 2019-08-09 This book explores different statistical quality technologies including recent advances and applications Statistical process control acceptance sample plans and reliability assessment are some of the essential statistical techniques in quality technologies to ensure high quality products and to reduce consumer and producer risks Numerous statistical techniques and methodologies for quality control and improvement have been developed in recent years to help resolve current product quality issues in today's fast changing environment Featuring contributions from top experts in the field this book covers three major topics statistical process control acceptance sampling plans and reliability testing and designs The topics covered in the book are timely and have a high potential impact and influence to academics scholars students and professionals in statistics engineering manufacturing and health **Proceedings of the Twelfth**

International Conference on Management Science and Engineering Management Jiuping Xu, Fang Lee Cooke, Mitsuo Gen, Syed Ejaz Ahmed, 2018-06-25 This proceedings book is divided in 2 Volumes and 8 Parts Part I is dedicated to Decision Support System which is about the information system that supports business or organizational decision making activities Part II is on Computing Methodology which is always used to provide the most effective algorithm for numerical solutions of various modeling problems Part III presents Information Technology which is the application of computers to store study retrieve transmit and manipulate data or information in the context of a business or other enterprise Part IV is dedicated to Data Analysis which is a process of inspecting cleansing transforming and modeling data with the goal of discovering useful information suggesting conclusions and supporting decision making Part V presents papers on Operational Management which is about the plan organization implementation and control of the operation process Part VI is on Project Management which is about the initiating planning executing controlling and closing the work of a team to achieve specific goals and meet specific success criteria at the specified time in the field of engineering Part VII presents Green Supply Chain which is about the management of the flow of goods and services based on the concept of low carbon Part VIII is focused on Industry Strategy Management which refers to the decision making and management art of an industry or organization in a long term and long term development direction objectives tasks and policies as well as resource allocation **Information**

Processing and Management of Uncertainty in Knowledge-Based Systems Joao Paulo Carvalho, Marie-Jeanne Lesot, Uzay Kaymak, Susana Vieira, Bernadette Bouchon-Meunier, Ronald R. Yager, 2016-06-10 This two volume set CCIS 610 and 611 constitute the proceedings of the 16th International Conference on Information processing and Management of Uncertainty in Knowledge Based Systems IPMU 2016 held in Eindhoven The Netherlands in June 2016 The 127 revised full papers presented together with four invited talks were carefully reviewed and selected from numerous submissions The papers are organized in topical sections on fuzzy measures and integrals uncertainty quantification with imprecise probability textual data processing belief functions theory and its applications graphical models fuzzy implications functions

applications in medicine and bioinformatics real world applications soft computing for image processing clustering fuzzy logic formal concept analysis and rough sets graded and many valued modal logics imperfect databases multiple criteria decision methods argumentation and belief revision databases and information systems conceptual aspects of data aggregation and complex data fusion fuzzy sets and fuzzy logic decision support comparison measures machine learning social data processing temporal data processing aggregation

Proceedings of the Second Seattle Symposium in Biostatistics Danyu Lin, Patrick J. Heagerty, 2012-12-06 This volume contains a selection of papers presented at the Second Seattle Symposium in Biostatistics Analysis of Correlated Data The symposium was held in 2000 to celebrate the 30th anniversary of the University of Washington School of Public Health and Community Medicine It featured keynote lectures by Norman Breslow David Cox and Ross Prentice and 16 invited presentations by other prominent researchers The papers contained in this volume encompass recent methodological advances in several important areas such as longitudinal data multivariate failure time data and genetic data as well as innovative applications of the existing theory and methods This volume is a valuable reference for researchers and practitioners in the field of correlated data analysis

Dependence in Probability and Statistics Paul Doukhan, Gabriel Lang, Donatas Surgailis, Gilles Teyssière, 2010-07-23 This account of recent works on weakly dependent long memory and multifractal processes introduces new dependence measures for studying complex stochastic systems and includes other topics such as the dependence structure of max stable processes

Predictive Analytics Using Statistics and Big Data: Concepts and Modeling Krishna Kumar Mohbey, Arvind Pandey, Dharmendra Singh Rajput, 2020-12-09 This book presents a selection of the latest and representative developments in predictive analytics using big data technologies It focuses on some critical aspects of big data and machine learning and provides studies for readers The chapters address a comprehensive range of advanced data technologies used for statistical modeling towards predictive analytics Topics included in this book include Categorized machine learning algorithms Player monopoly in cricket teams Chain type estimators Log type estimators Bivariate survival data using shared inverse Gaussian frailty models Weblog analysis COVID 19 epidemiology This reference book will be of significant benefit to the predictive analytics community as a useful guide of the latest research in this emerging field

Space, Structure and Randomness Michel Bilodeau, Fernand Meyer, Michel Schmitt, 2007-12-23 Space structure and randomness these are the three key concepts underlying Georges Matheron's scientific work He first encountered them at the beginning of his career when working as a mining engineer and then they resurfaced in fields ranging from meteorology to microscopy What could these radically different types of applications possibly have in common First in each one only a single realisation of the phenomenon is available for study but its features repeat themselves in space second the sampling pattern is rarely regular and finally there are problems of change of scale This volume is divided in three sections on random sets geostatistics and mathematical morphology They reflect his professional interests and his search for underlying unity Some readers may be

surprised to find theoretical chapters mixed with applied ones We have done this deliberately GM always considered that the distinction between the theory and practice was purely academic When GM tackled practical problems he used his skill as a physicist to extract the salient features and to select variables which could be measured meaningfully and whose values could be estimated from the available data Then he used his outstanding ability as a mathematician to solve the problems neatly and efficiently It was his capacity to combine a physicist's intuition with a mathematician's analytical skills that allowed him to produce new and innovative solutions to difficult problems The book should appeal to graduate students and researchers working in mathematics probability statistics physics spatial data analysis and image analysis In addition it will be of interest to those who enjoy discovering links between scientific disciplines that seem unrelated at first glance In writing the book the contributors have tried to put GM's ideas into perspective During his working life GM was a genuinely creative scientist He developed innovative concepts whose usefulness goes far beyond the confines of the discipline for which they were originally designed This is why his work remains as pertinent today as it was when it was first written

Recent Advances on Sampling Methods and Educational Statistics Hon Keung Tony Ng, Daniel F. Heitjan, 2022-11-25 This edited collection commemorates the career of Dr S Lynne Stokes by highlighting recent advances in her areas of research interest emphasizing practical applications and future directions It serves as a collective effort of leading statistical scientists who work at the cutting edge in statistical sampling S Lynne Stokes is Professor of Statistical Science and Director of the Data Science Institute at Southern Methodist University and Senior Fellow at the National Institute of Statistical Sciences She has enjoyed a distinguished research career making fundamental contributions to a variety of fields in statistical sampling Reflecting on Professor Stokes' main areas of research this volume is structured into three main parts I ranked set sampling judgment post stratified sampling and capture recapture methods II nonsampling errors in statistical sampling III educational and behavioral statistics This collection will be of interest to researchers advanced students and professionals in the public and private sectors who would like to learn more about latest advancements in statistical sampling particularly those who work in educational and behavioral statistics

Statistical Models and Methods for Data Science Leonardo Grilli, Monia Lupparelli, Carla Rampichini, Emilia Rocco, Maurizio Vichi, 2023-07-24 This book focuses on methods and models in classification and data analysis and presents real world applications at the interface with data science Numerous topics are covered ranging from statistical inference and modelling to clustering and factorial methods and from directional data analysis to time series analysis and small area estimation The applications deal with new developments in a variety of fields including medicine finance engineering marketing and cyber risk The contents comprise selected and peer reviewed contributions presented at the 13th Scientific Meeting of the Classification and Data Analysis Group of the Italian Statistical Society CLADAG 2021 held online in Florence Italy on September 9-11 2021 CLADAG promotes advanced methodological research in multivariate statistics with a special focus on data analysis and classification and supports the exchange and

dissemination of ideas methodological concepts numerical methods algorithms and computational and applied results at the interface between classification and data science *Benchmarking, Temporal Distribution, and Reconciliation Methods for Time Series* Estela Bee Dagum, Pierre A. Cholette, 2006-09-23 In modern economies time series play a crucial role at all levels of activity They are used by decision makers to plan for a better future by governments to promote prosperity by central banks to control inflation by unions to bargain for higher wages by hospital school boards manufacturers builders transportation companies and by consumers in general A common misconception is that time series data originate from the direct and straightforward compilations of survey data censuses and administrative records On the contrary before publication time series are subject to statistical adjustments intended to facilitate analysis increase efficiency reduce bias replace missing values correct errors and satisfy cross sectional additivity constraints Some of the most common adjustments are benchmarking interpolation temporal distribution calendarization and reconciliation This book discusses the statistical methods most often applied for such adjustments ranging from ad hoc procedures to regression based models The latter are emphasized because of their clarity ease of application and superior results Each topic is illustrated with many real case examples In order to facilitate understanding of their properties and limitations of the methods discussed a real data example the Canada Total Retail Trade Series is followed throughout the book This book brings together the scattered literature on these topics and presents them using a consistent notation and a unifying view The book will promote better procedures by large producers of time series e g statistical agencies and central banks Furthermore knowing what adjustments are made to the data and what technique is used and how they affect the trend the business cycles and seasonality of the series will enable users to perform better modeling prediction analysis and planning This book will prove useful to graduate students and final year undergraduate students of time series and econometrics as well as researchers and practitioners in government institutions and business From the reviews It is an excellent reference book for people working in this area B Abraham for Short Book Reviews of the ISI December 2006 *Series Approximation Methods in Statistics* John E. Kolassa, 2006-09-23 This revised book presents theoretical results relevant to Edgeworth and saddlepoint expansions to densities and distribution functions It provides examples of their application in some simple and a few complicated settings along with numerical as well as asymptotic assessments of their accuracy Variants on these expansions including much of modern likelihood theory are discussed and applications to lattice distributions are extensively treated *New Modification of Ranked Set Sampling for Estimating Population Mean: Neutrosophic Median Ranked Set Sampling with an Application to Demographic Data* Anamika Kumari, Rajesh Singh, Florentin Smarandache, 2024-08-08 The study addressed the limitations of classical statistical methods when dealing with ambiguous data emphasizing the importance of adopting neutrosophic statistics as a more effective alternative Classical methods falter in managing uncertainty inherent in such data necessitating a shift towards methodologies like neutrosophic statistics To address this gap the research introduced a novel sampling

approach called neutrosophic median ranked set sampling and incorporated neutrosophic estimators tailored for estimating the population mean in the presence of ambiguity. This modification aims to address the inherent challenges associated with estimating the population mean when dealing with neutrosophic data. The methods employed involved modifying traditional ranked set sampling techniques to accommodate neutrosophic data characteristics. Additionally, neutrosophic estimators were developed to leverage auxiliary information within the framework of median ranked set sampling, enhancing the accuracy of population mean estimation under uncertain conditions. The methods employed involved modifying traditional ranked set sampling techniques to accommodate neutrosophic data characteristics. Bias and mean squared error equations for the suggested estimators were provided, offering insights into their theoretical underpinnings. To illustrate the effectiveness and practical applications of the proposed methodology and estimators, a numerical demonstration and simulation study have been conducted using the R programming language. The key results highlighted the superior performance of the proposed estimators compared to existing alternatives, as demonstrated through comprehensive evaluations based on mean squared error and percentage relative efficiency criteria. The conclusions drawn underscored the effectiveness of the neutrosophic median ranked set sampling approach and suggested estimators in estimating the population mean under conditions of uncertainty, particularly when utilizing neutrosophic auxiliary information and validated real-life applicability. The methodology and estimators presented in the study were shown to yield interval-based results, providing a more realistic representation of uncertainty associated with population parameters. This interval estimation, coupled with minimum mean squared error considerations, enhanced the efficacy of the estimators in determining population mean values. The novelty of the work lies in its introduction of a tailored sampling approach and estimators designed specifically for neutrosophic data, filling a significant gap in the literature. By extending classical statistics to accommodate ambiguity, the study offers a substantial advancement in statistical methodology, particularly in domains where precise data is scarce and uncertainty is prevalent. Furthermore, the empirical validation through numerical demonstrations and simulation studies using the R programming language adds robustness to the proposed methodology and contributes to its practical applicability.

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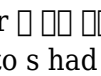
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