

Lecture Notes in Statistics

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Bimal K. Sinha**

Ranked Set Sampling

Theory and Applications



Springer

Ranked Set Sampling Theory And Applications

Richard Bailey



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 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*

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Ranked Set Sampling Munir Ahmad,M. Hanif,Hassen A. Muttalak,2010-09-13 Ranked Set Sampling is one of the new areas of study in this region of the world and is a growing subject of research Recently researchers have paid attention to the development of the types of sampling though it was not welcome in the beginning it has numerous advantages over the classical sampling techniques Ranked Set Sampling is doubly random and can be used in any survey designs The Pakistan Journal of Statistics had attracted statisticians and samplers around the world to write up aspects of Ranked Set Sampling All of the essays in this book have been reviewed by many critics This volume can be used as a reference book for postgraduate students in economics social sciences medical and biological sciences and statistics The subject is still a hot topic for MPhil and PhD students for their dissertations

Advanced Sampling Methods Raosaheb Latpate,Jayant Kshirsagar,Vinod Kumar Gupta,Girish Chandra,2021-05-07 This book discusses all major topics on survey sampling and estimation It covers traditional as well as advanced sampling methods related to the spatial populations The book presents real world applications of major sampling methods and illustrates them with the R software As a large sample size is not cost efficient this book introduces a new method by using the domain knowledge of the negative correlation between the variable of interest and the auxiliary variable in order to control the size of a sample In addition the book focuses on adaptive cluster sampling rank set sampling and their applications in real life Advance methods discussed in the book have tremendous applications in ecology

environmental science health science forestry bio sciences and humanities This book is targeted as a text for undergraduate and graduate students of statistics as well as researchers in various disciplines **Innovative Statistical Methods for Public Health Data** Ding-Geng (Din) Chen,Jeffrey Wilson,2015-08-31 The book brings together experts working in public health and multi disciplinary areas to present recent issues in statistical methodological development and their applications This timely book will impact model development and data analyses of public health research across a wide spectrum of analysis Data and software used in the studies are available for the reader to replicate the models and outcomes The fifteen chapters range in focus from techniques for dealing with missing data with Bayesian estimation health surveillance and population definition and implications in applied latent class analysis to multiple comparison and meta analysis in public health data Researchers in biomedical and public health research will find this book to be a useful reference and it can be used in graduate level classes **Parameter Estimation for Concomitant and Multivariate Cluster Ranked Set Sampling** Philip Austen Shale,2006 **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 *Journal of Statistical Planning and Inference* North-Holland Publishing Company,2003 **Journal of the American Statistical Association** ,2006 **Journal of the Indian Statistical Association** Indian Statistical Association,2013 **Environmental Statistics** G.P. Patil,Calyampudi Radhakrishna Rao,1994-02-23 The question of what environmental statistics is about is particularly important when it comes to the formulation of relevant research and training whether in academia agencies or industries This volume aims to give a new perception on the subject with some examples that are of concern and interest today Environmental statistics is in a take off stage both for reasons of societal challenge and statistical opportunity and is demanding more and more from non traditional

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,1994 *Proceedings of the Section on Statistics and the Environment* American Statistical Association. Section on
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