

S P Gupta Statistical Methods

Statistical Methods for Evaluating Safety in Medical Product Development
Statistical Modeling Using Local Gaussian Approximation
Kendall's Advanced Theory of Statistics, Distribution Theory
Society 5.0: Smart Future Towards Enhancing the Quality of Society
Applied Statistical Methods
Bayesian Modeling Using WinBUGS
Handbook of Forensic Statistics
International Handbook of Adult Mortality
Order Statistics
Simultaneous Statistical Inference
Probability Theory and Mathematical Statistics
Bayesian Time Series Models
Survey Sampling Theory and Applications
Pattern Recognition
Advances in the Theory and Practice of Statistics
Probability Theory and Mathematical Statistics. Vol. 1
Order Statistics in Wireless Communications
Multiple-Criteria Decision-Making (MCDM) Techniques and Statistics in Marketing
Statistical Methods in e-Commerce Research
Computational and Statistical Epigenomics
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this book gives professionals in clinical research valuable information on the challenging issues of the design execution and management of clinical trials and how to resolve these issues effectively it also provides understanding and practical guidance on the application of contemporary statistical methods to contemporary issues in safety evaluation during medical product development each chapter provides sufficient detail to the reader to undertake the design and analysis of experiments at various stages of product development including comprehensive references to the relevant literature provides a guide to statistical methods and application in medical product development assists readers in undertaking design and analysis of experiments at various stages of product development features case studies throughout the book as well as sas and r code

statistical modeling using local gaussian approximation extends powerful characteristics of the gaussian distribution perhaps the most well known and most used distribution in statistics to a large class of non gaussian and nonlinear situations through local approximation this extension enables the reader to follow new methods in assessing dependence and conditional dependence in estimating probability and spectral density functions and in discrimination chapters in this release cover parametric nonparametric locally parametric dependence local gaussian correlation and dependence local gaussian correlation and the copula applications in finance and more additional chapters explores measuring dependence and testing for independence time series dependence and spectral analysis multivariate density estimation conditional density estimation the local gaussian partial correlation regression and conditional regression quantiles and a local gaussian fisher discriminant reviews local dependence modeling with applications to time series and finance markets introduces new techniques for density estimation conditional density estimation and tests of conditional independence with applications in economics evaluates local spectral analysis discovering hidden frequencies in extremes and hidden phase differences integrates textual content with three useful r packages

kendall s advanced theory of statistics and kendall s library of statistics the development of modern statistical theory is reflected in the history of the late sir maurice kenfall s volumes the advanced theory of statistics this landmark publication began life as a two volume work and grew steadily as a single authored work until the 1950s in this edition there is new material on skewness and kurtosis hazard rate distribution the bootstrap the evaluation of the multivariate normal integral and ratios of quadratic forms it also includes over 200 new references 40 new exercises and 20 further examples in the main text

the book discusses society 5.0 which fills the gap between cyber and physical space by providing a balanced environment between economic and social needs the book is divided into two parts part a focuses on various concepts related to society 5.0 such as cyber space physical space information management and digital transformation part b discusses various integrated fields in society 5.0 such as super smart healthcare system super smart hospitality system smart building and transport management system it also illustrates the concepts of big data real time analytics for smart society 5.0 with an insight of real time case studies

this book collects select contributions presented at the international conference on importance of statistics in global emerging isges 2020 held at the department of mathematics and statistics university of pune maharashtra india from 24 january 2020 it discusses recent developments in several areas of statistics with applications of a wide range of key topics including small area estimation

techniques bayesian models for small areas ranked set sampling fuzzy supply chain probabilistic supply chain models dynamic gaussian process models grey relational analysis and multi item inventory models and more the possible use of other models including generalized lindley shared frailty models benktander gibrat risk model decision consistent randomization method for smart designs and different reliability models are also discussed this book includes detailed worked examples and case studies that illustrate the applications of recently developed statistical methods making it a valuable resource for applied statisticians students research project leaders and practitioners from various marginal disciplines and interdisciplinary research

a hands on introduction to the principles of bayesian modeling using winbugs bayesian modeling using winbugs provides an easily accessible introduction to the use of winbugs programming techniques in a variety of bayesian modeling settings the author provides an accessible treatment of the topic offering readers a smooth introduction to the principles of bayesian modeling with detailed guidance on the practical implementation of key principles the book begins with a basic introduction to bayesian inference and the winbugs software and goes on to cover key topics including markov chain monte carlo algorithms in bayesian inference generalized linear models bayesian hierarchical models predictive distribution and model checking bayesian model and variable evaluation computational notes and screen captures illustrate the use of both winbugs as well as r software to apply the discussed techniques exercises at the end of each chapter allow readers to test their understanding of the presented concepts and all data sets and code are available on the book's related site requiring only a working knowledge of probability theory and statistics bayesian modeling using winbugs serves as an excellent book for courses on bayesian statistics at the upper undergraduate and graduate levels it is also a valuable reference for researchers and practitioners in the fields of statistics actuarial science medicine and the social sciences who use winbugs in their everyday work

handbook of forensic statistics is a collection of chapters by leading authorities in forensic statistics written for statisticians scientists and legal professionals having a broad range of statistical expertise it summarizes and compares basic methods of statistical inference frequentist likelihoodist and bayesian for trace and other evidence that links individuals to crimes the modern history and key controversies in the field and the psychological and legal aspects of such scientific evidence specific topics include uncertainty in measurements and conclusions statistically valid statements of weight of evidence or source conclusions admissibility and presentation of statistical findings and the state of the art of methods including problems and pitfalls for collecting analyzing and interpreting data in such areas as forensic biology chemistry and pattern and impression evidence the particular types of evidence that are discussed include dna latent fingerprints firearms and toolmarks glass handwriting shoeprints and voice exemplars

this handbook presents a comprehensive and up to date overview of unprecedented substantive theoretical methodological and statistical developments and insights and an in depth examination of trends and patterns in adult mortality around the world with over two dozen chapters and more than 50 authors this volume draws from top international mortality experts to provide one of the best overviews of life expectancy extant the book documents remarkable gains in life expectancy which stand out as one of the most important accomplishments of the twentieth century individuals in more developed countries can expect to live longer now than ever before especially the japanese who enjoy record setting life expectancies the book also explores unfortunate declines in life expectancy in selected countries brought on by such factors as infectious diseases accidents suicides and homicides and political and economic conflict and turmoil this book synthesizes the wealth of mortality information available clearly articulates the central findings to date identifies the most appropriate datasets and methods currently available illuminates the central research questions and develops an agenda to address these research questions the authors carefully examine central factors related to mortality including health behaviors socioeconomic status social relations biomarkers and genetic factors the book will prove especially relevant to researchers students and policy makers within social and health sciences who want to better understand international trends and patterns in adult mortality

this volume provides an up to date coverage of the theory and applications of ordered random variables and their functions furthermore it develops the distribution theory of os systematically applications include procedures for the treatment of outliers and other data analysis techniques even when chapter and section headings are the same as in osii there are appreciable changes mostly additions with some obvious deletions parts of old ch 7 for example are prime candidates for omission appendices are designed to help collate tables computer algorithms and software as well as to compile related monographs on the subject matter extensive exercise sets will continue many of them replaced by newer ones

simultaneous statistical inference which was published originally in 1966 by mcgraw hill book company went out of print in 1973 since then it has been available from university microfilms international in xerox form with this new edition springer verlag has republished the original edition along with my review article on multiple comparisons from the december 1977 issue of the journal of the american statistical association this review article covered developments in the field from 1966 through 1976 a few minor typographical errors in the original edition have been corrected in this new edition a new table of critical points for the studentized maximum modulus is included in this second edition as an addendum the original edition included the table by k c pillai and k v ramachandran which was meager but the best available at the time this edition contains the table published in biometrika in 1971 by g l hahn and r w hendrickson which is far more comprehensive and therefore more useful the typing was ably handled by wanda edminster for the review article and karola delevé for the changes for the second edition my wife barbara again cheerfully assisted in the proofreading fred leone kindly granted permission from the american statistical association to reproduce my review article also gerald hahn richard hendrickson and for biometrika david cox graciously granted permission to reproduce the new table of the studentized maximum modulus the work in preparing the review article was partially supported by nih grant roi gm21215

the first unified treatment of time series modelling techniques spanning machine learning statistics engineering and computer science

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

the multi volume set of lncs books with volume numbers 15301 15333 constitutes the refereed proceedings of the 27th international conference on pattern recognition icpr 2024 held in kolkata india during december 1 5 2024 the 963 papers presented in these proceedings were carefully reviewed and selected from a total of 2106 submissions they deal with topics such as pattern recognition artificial intelligence machine learning computer vision robot vision machine vision image processing speech processing signal processing video processing biometrics human computer interaction hci document analysis document recognition biomedical imaging bioinformatics

in honor of samuel kotz an international collection of articles on the latest advances in statistics this tribute to samuel kotz features articles by eminent statisticians from around the world all recognizing the lifetime of accomplishments of one of the premier statisticians of our time centered on distributions models and their applications this book highlights some recent developments in both theory and applications of statistics editors norman l johnson and n balakrishnan both of whom have collaborated extensively with samuel kotz have gathered contributions from theoreticians and practitioners in 18 countries giving the volume a global perspective each article is classified into one of 10 areas in the theory and practice of statistics the areas highlighted in this volume are statistics in the world models biostatistics testing and estimation univariate distributions multivariate distributions characterizations probability bayes theory descriptive statistics many of the articles in the volume highlight samuel kotz s pioneering and fundamental contributions to these areas commemorative articles by those who knew and worked with samuel kotz as well as the detailed exploration of classical and new directions in statistical research make this volume an essential addition to any statistics library

no detailed description available for grigelionis proceedings of the fifth vilnius confere e book

covering fundamental principles through to practical applications this self contained guide describes indispensable mathematical tools for the analysis and design of advanced wireless transmission and reception techniques in mimo and ofdm systems the analysis oriented approach develops a thorough understanding of core concepts and discussion of various example schemes shows how to apply these concepts in practice the book focuses on techniques for advanced diversity combining channel adaptive transmission and multiuser scheduling the foundations of future wireless systems for the delivery of highly spectrum efficient wireless multimedia services bringing together conventional and novel results from a wide variety of sources it will teach you to accurately quantify trade offs between performance and complexity for different design options so that you can determine the most suitable design choice based on your specific practical implementation constraints

marketing has become increasingly popular utilizing multi criteria decision making mcdm methods and statistics to create robust frameworks for making informed and strategic decisions computational and modeling breakthroughs have resulted in a significant increase in the use of mcdm methods in marketing in the past decade making it an ideal solution for many marketing problems statistics can now be used to conduct mcdm analyses on a variety of marketing problems including new product introduction and pricing using multiple data sources businesses can make more informed strategic and effective decisions by using mcdm methods and statistical analysis in marketing by using these tools marketers can improve market performance and competitive advantage by optimizing product development pricing strategies market segmentation and campaign effectiveness multiple criteria decision making mcdm techniques and statistics in marketing explores the effects of mcdm techniques on marketing practices it covers a wide range of statistics and research to examine mcdm in shaping modern consumer science this book covers topics such as management science product development and consumer behavior and is a useful resource for marketers business owners data scientists academicians and researchers

this groundbreaking book introduces the application of statistical methodologies to e commerce data with the expanding presence of technology in today s economic market the use of the internet for buying selling and investing is growing more popular and public in nature statistical methods in e commerce research is the first book of its kind to focus on the statistical models and methods that are essential in order to analyze information from electronic commerce e commerce transactions identify the challenges that arise with new e commerce data structures and discover new knowledge about consumer activity this collection gathers over thirty researchers and practitioners from the fields of statistics computer science information systems and marketing to discuss the growing use of statistical methods in e commerce research from privacy protection to economic impact the book first identifies the many obstacles that are encountered while collecting cleaning exploring and analyzing e commerce data solutions to these problems are then suggested using established and newly developed statistical and data mining methods finally a look into the future of this evolving area of study is provided through an in depth discussion of the emerging methods for conducting e commerce research statistical methods in e commerce research successfully bridges the gap between statistics and e commerce introducing a statistical approach to solving challenges that arise in the context of online transactions while also introducing a wide range of e commerce

applications and problems where novel statistical methodology is warranted it is an ideal text for courses on e commerce at the upper undergraduate and graduate levels and also serves as a valuable reference for researchers and analysts across a wide array of subject areas including economics marketing and information systems who would like to gain a deeper understanding of the use of statistics in their work

this book introduces the reader to modern computational and statistical tools for translational epigenomics research over the last decade epigenomics has emerged as a key area of molecular biology epidemiology and genome medicine epigenomics not only offers us a deeper understanding of fundamental cellular biology but also provides us with the basis for an improved understanding and management of complex diseases from novel biomarkers for risk prediction early detection diagnosis and prognosis of common diseases to novel therapeutic strategies epigenomics is set to play a key role in the personalized medicine of the future in this book we introduce the reader to some of the most important computational and statistical methods for analyzing epigenomic data with a special focus on dna methylation topics include normalization correction for cellular heterogeneity batch effects clustering supervised analysis and integrative methods for systems epigenomics this book will be of interest to students and researchers in bioinformatics biostatistics biologists and clinicians alike dr andrew e teschendorff is head of the computational systems genomics lab at the cas mpg partner institute for computational biology shanghai china as well as an honorary research fellow at the ucl cancer institute university college london uk

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