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Modeling to Inform Infectious Disease Control



Niels G. Becker



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Modeling To Inform Infectious Disease Control

Chapman Hallcrc Biostatistics Series

Mahlet G. Tadesse, Marina Vannucci



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Modeling to Inform Infectious Disease Control Niels G. Becker, 2015-04-28 Effectively Assess Intervention Options for Controlling Infectious Diseases Our experiences with the human immunodeficiency virus HIV severe acute respiratory syndrome SARS and Ebola virus disease EVD remind us of the continuing need to be vigilant against the emergence of new infectious diseases Mathematical modeling is increasingly used i **Bayesian Disease Mapping** Andrew B.

Lawson, 2018-05-20 Since the publication of the second edition many new Bayesian tools and methods have been developed for space time data analysis the predictive modeling of health outcomes and other spatial biostatistical areas Exploring these new developments Bayesian Disease Mapping Hierarchical Modeling in Spatial Epidemiology Third Edition provides an up to date cohesive account of the full range of Bayesian disease mapping methods and applications In addition to the new material the book also covers more conventional areas such as relative risk estimation clustering spatial survival analysis and longitudinal analysis After an introduction to Bayesian inference computation and model assessment the text focuses on important themes including disease map reconstruction cluster detection regression and ecological analysis putative hazard modeling analysis of multiple scales and multiple diseases spatial survival and longitudinal studies spatiotemporal methods and map surveillance It shows how Bayesian disease mapping can yield significant insights into georeferenced health data The target audience for this text is public health specialists epidemiologists and biostatisticians who need to work with georeferenced health data Handbook of Infectious Disease Data Analysis Leonhard Held, Niel Hens, Philip O'Neill, Jacco

Wallinga, 2019-11-07 Recent years have seen an explosion in new kinds of data on infectious diseases including data on social contacts whole genome sequences of pathogens biomarkers for susceptibility to infection serological panel data and surveillance data The Handbook of Infectious Disease Data Analysis provides an overview of many key statistical methods that have been developed in response to such new data streams and the associated ability to address key scientific and epidemiological questions A unique feature of the Handbook is the wide range of topics covered Key features Contributors include many leading researchers in the field Divided into four main sections Basic concepts Analysis of Outbreak Data Analysis of Seroprevalence Data Analysis of Surveillance Data Numerous case studies and examples throughout Provides both introductory material and key reference material Handbook of Measurement Error Models Grace Y. Yi, Aurore

Delaigle, Paul Gustafson, 2021-10-17 Measurement error arises ubiquitously in applications and has been of long standing concern in a variety of fields including medical research epidemiological studies economics environmental studies and survey research While several research monographs are available to summarize methods and strategies of handling different measurement error problems research in this area continues to attract extensive attention The Handbook of Measurement Error Models provides overviews of various topics on measurement error problems It collects carefully edited chapters concerning issues of measurement error and evolving statistical methods with a good balance of methodology and

applications It is prepared for readers who wish to start research and gain insights into challenges methods and applications related to error prone data It also serves as a reference text on statistical methods and applications pertinent to measurement error models for researchers and data analysts alike Features Provides an account of past development and modern advancement concerning measurement error problems Highlights the challenges induced by error contaminated data Introduces off the shelf methods for mitigating deleterious impacts of measurement error Describes state of the art strategies for conducting in depth research Handbook of Bayesian Variable Selection Mahlet G. Tadesse, Marina Vannucci, 2021-12-24 Bayesian variable selection has experienced substantial developments over the past 30 years with the proliferation of large data sets Identifying relevant variables to include in a model allows simpler interpretation avoids overfitting and multicollinearity and can provide insights into the mechanisms underlying an observed phenomenon Variable selection is especially important when the number of potential predictors is substantially larger than the sample size and sparsity can reasonably be assumed The Handbook of Bayesian Variable Selection provides a comprehensive review of theoretical methodological and computational aspects of Bayesian methods for variable selection The topics covered include spike and slab priors continuous shrinkage priors Bayes factors Bayesian model averaging partitioning methods as well as variable selection in decision trees and edge selection in graphical models The handbook targets graduate students and established researchers who seek to understand the latest developments in the field It also provides a valuable reference for all interested in applying existing methods and or pursuing methodological extensions Features Provides a comprehensive review of methods and applications of Bayesian variable selection Divided into four parts Spike and Slab Priors Continuous Shrinkage Priors Extensions to various Modeling Other Approaches to Bayesian Variable Selection Covers theoretical and methodological aspects as well as worked out examples with R code provided in the online supplement Includes contributions by experts in the field Supported by a website with code data and other supplementary material **Handbook of Matching and Weighting Adjustments for Causal Inference** José R. Zubizarreta, Elizabeth A. Stuart, Dylan S. Small, Paul R. Rosenbaum, 2023-04-11 An observational study infers the effects caused by a treatment policy program intervention or exposure in a context in which randomized experimentation is unethical or impractical One task in an observational study is to adjust for visible pretreatment differences between the treated and control groups Multivariate matching and weighting are two modern forms of adjustment This handbook provides a comprehensive survey of the most recent methods of adjustment by matching weighting machine learning and their combinations Three additional chapters introduce the steps from association to causation that follow after adjustments are complete When used alone matching and weighting do not use outcome information so they are part of the design of an observational study When used in conjunction with models for the outcome matching and weighting may enhance the robustness of model based adjustments The book is for researchers in medicine economics public health psychology epidemiology public program evaluation and statistics who examine evidence

of the effects on human beings of treatments policies or exposures

Handbook of Multiple Comparisons Xinping Cui, Thorsten Dickhaus, Ying Ding, Jason C. Hsu, 2021-11-17 Written by experts that include originators of some key ideas chapters in the Handbook of Multiple Testing cover multiple comparison problems big and small with guidance toward error rate control and insights on how principles developed earlier can be applied to current and emerging problems Some highlights of the coverages are as follows Error rate control is useful for controlling the incorrect decision rate Chapter 1 introduces Tukey's original multiple comparison error rates and point to how they have been applied and adapted to modern multiple comparison problems as discussed in the later chapters Principles endure While the closed testing principle is more familiar Chapter 4 shows the partitioning principle can derive confidence sets for multiple tests which may become important as the profession goes beyond making decisions based on p values Multiple comparisons of treatment efficacy often involve multiple doses and endpoints Chapter 12 on multiple endpoints explains how different choices of endpoint types lead to different multiplicity adjustment strategies while Chapter 11 on the MCP Mod approach is particularly useful for dose finding To assess efficacy in clinical trials with multiple doses and multiple endpoints the reader can see the traditional approach in Chapter 2 the Graphical approach in Chapter 5 and the multivariate approach in Chapter 3 Personalized precision medicine based on targeted therapies already a reality naturally leads to analysis of efficacy in subgroups Chapter 13 draws attention to subtle logical issues in inferences on subgroups and their mixtures with a principled solution that resolves these issues This chapter has implication toward meeting the ICH E9 R1 Estimands requirement Besides the mere multiple testing methodology itself the handbook also covers related topics like the statistical task of model selection in Chapter 7 or the estimation of the proportion of true null hypotheses or in other words the signal prevalence in Chapter 8 It also contains decision theoretic considerations regarding the admissibility of multiple tests in Chapter 6 The issue of selected inference is addressed in Chapter 9 Comparison of responses can involve millions of voxels in medical imaging or SNPs in genome wide association studies GWAS Chapter 14 and Chapter 15 provide state of the art methods for large scale simultaneous inference in these settings

Handbook of Statistical Methods for Randomized Controlled Trials KyungMann Kim, Frank Bretz, Ying Kuen K. Cheung, Lisa V. Hampson, 2021-08-23 Statistical concepts provide scientific framework in experimental studies including randomized controlled trials In order to design monitor analyze and draw conclusions scientifically from such clinical trials clinical investigators and statisticians should have a firm grasp of the requisite statistical concepts The Handbook of Statistical Methods for Randomized Controlled Trials presents these statistical concepts in a logical sequence from beginning to end and can be used as a textbook in a course or as a reference on statistical methods for randomized controlled trials Part I provides a brief historical background on modern randomized controlled trials and introduces statistical concepts central to planning monitoring and analysis of randomized controlled trials Part II describes statistical methods for analysis of different types of outcomes and the associated statistical distributions used in testing the statistical

hypotheses regarding the clinical questions Part III describes some of the most used experimental designs for randomized controlled trials including the sample size estimation necessary in planning Part IV describe statistical methods used in interim analysis for monitoring of efficacy and safety data Part V describe important issues in statistical analyses such as multiple testing subgroup analysis competing risks and joint models for longitudinal markers and clinical outcomes Part VI addresses selected miscellaneous topics in design and analysis including multiple assignment randomization trials analysis of safety outcomes non inferiority trials incorporating historical data and validation of surrogate outcomes

Handbook of Forensic Statistics David L. Banks, Karen Kafadar, David H. Kaye, Maria Tackett, 2020-11-05 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

Handbook of Generalized Pairwise Comparisons Marc Buyse, Johan Verbeek, Everardo D. Saad, Mickaël De Backer, Vaiva Deltuvaite-Thomas, Geert Molenberghs, 2025-03-31 In today's healthcare landscape there is a pressing need for quantitative methodologies that include the patient's perspective in any treatment decision Handbook of Generalized Pairwise Comparisons Methods for Patient Centric Analysis provides a comprehensive overview of an innovative and powerful statistical methodology that generalizes the traditional Wilcoxon Mann Whitney test by extending it to any number of outcomes of any type and including thresholds of clinical relevance into a single multidimensional evaluation The book covers the statistical foundations of generalized pairwise comparisons GPC applications in various disease areas implications for regulatory approvals and benefit risk analyses and considerations for patient centrality in clinical research With contributions from leading experts in the field this book stands as an essential resource for a more holistic and patient centric assessment of treatment effects

The Oxford Handbook of Quantitative Methods in Psychology, Vol. 1 Todd D. Little, 2013-03-21 The Oxford Handbook of Quantitative Methods in Psychology provides an accessible and comprehensive review of the current state of the science and a one stop source for learning and reviewing current best practices in a quantitative methods across the social behavioral and educational sciences

The Oxford Handbook of Quantitative Methods, Volume 1: Foundations Todd D. Little, 2013-01-15 Research today demands the application of sophisticated and powerful research tools Fulfilling this need The Oxford Handbook of Quantitative Methods is the complete tool box to deliver

the most valid and generalizable answers to today's complex research questions. It is a one-stop source for learning and reviewing current best practices in quantitative methods as practiced in the social, behavioral, and educational sciences. Comprising two volumes, this handbook covers a wealth of topics related to quantitative research methods. It begins with essential philosophical and ethical issues related to science and quantitative research. It then addresses core measurement topics before delving into the design of studies. Principal issues related to modern estimation and mathematical modeling are also detailed. Topics in the handbook then segway into the realm of statistical inference and modeling, with chapters dedicated to classical approaches as well as modern latent variable approaches. Numerous chapters associated with longitudinal data and more specialized techniques round out this broad selection of topics. Comprehensive, authoritative, and user-friendly, this two-volume set will be an indispensable resource for serious researchers across the social, behavioral, and educational sciences.

Handbook of Meta-Analysis Christopher H. Schmid, Theo Stijnen, Ian White, 2020-09-08. Meta-analysis is the application of statistics to combine results from multiple studies and draw appropriate inferences. Its use and importance have exploded over the last 25 years as the need for a robust evidence base has become clear in many scientific areas, including medicine and health, social sciences, education, psychology, ecology, and economics. Recent years have seen an explosion of methods for handling complexities in meta-analysis, including explained and unexplained heterogeneity between studies, publication bias, and sparse data. At the same time, meta-analysis has been extended beyond simple two-group comparisons of continuous and binary outcomes to comparing and ranking the outcomes from multiple groups, to complex observational studies, to assessing heterogeneity of effects, and to survival and multivariate outcomes. Many of these methods are statistically complex and are tailored to specific types of data. Key features: Rigorous coverage of the full range of current statistical methodology used in meta-analysis; Comprehensive, coherent, and unified overview of the statistical foundations behind meta-analysis; Detailed description of the primary methods for both univariate and multivariate data; Computer code to reproduce examples in chapters; Thorough review of the literature with thousands of references; Applications to specific types of biomedical and social science data. This book is for a broad audience of graduate students, researchers, and practitioners interested in the theory and application of statistical methods for meta-analysis. It is written at the level of graduate courses in statistics but will be of interest to and readable for quantitative scientists from a range of disciplines. The book can be used as a graduate-level textbook, as a general reference for methods, or as an introduction to specialized topics using state-of-the-art methods.

MEDINFO 2019: Health and Wellbeing e-Networks for All Lucila Ohno-Machado, 2019-11-15

Combining and integrating cross-institutional data remains a challenge for both researchers and those involved in patient care. Patient-generated data can contribute precious information to healthcare professionals by enabling monitoring under normal life conditions and also helping patients play a more active role in their own care. This book presents the proceedings of MEDINFO 2019, the 17th World Congress on Medical and Health Informatics, held in Lyon, France, from 25 to 30 August.

2019 The theme of this year's conference was Health and Wellbeing E Networks for All stressing the increasing importance of networks in healthcare on the one hand and the patient centered perspective on the other Over 1100 manuscripts were submitted to the conference and after a thorough review process by at least three reviewers and assessment by a scientific program committee member 285 papers and 296 posters were accepted together with 47 podium abstracts 7 demonstrations 45 panels 21 workshops and 9 tutorials All accepted paper and poster contributions are included in these proceedings The papers are grouped under four thematic tracks interpreting health and biomedical data supporting care delivery enabling precision medicine and public health and the human element in medical informatics The posters are divided into the same four groups The book presents an overview of state of the art informatics projects from multiple regions of the world it will be of interest to anyone working in the field of medical informatics Plotkin's Vaccines,E-Book Walter A. Orenstein,Paul A. Offit,Kathryn M. Edwards,Stanley A. Plotkin,2022-12-21 From the latest vaccination evidence recommendations and protocols to new vaccine development and the use of vaccines in reducing disease Plotkin's Vaccines 8th Edition covers every aspect of vaccination Now completely revised and updated from cover to cover this award winning text continues to provide reliable information from global authorities offering a complete understanding of each disease as well as the latest knowledge of both existing vaccines and those currently in research and development Described by Bill Gates as an indispensable guide to the enhancement of the well being of our world Plotkin's Vaccines is a must have reference for current authoritative information in this fast moving field Contains all new chapters on COVID 19 vaccine hesitancy and non specific effects of vaccines as well as significantly revised content on new vaccine technologies such as mRNA vaccines emerging vaccines and technologies to improve immunization Presents exciting new data on evolution of adjuvants across the centuries dengue vaccines human papillomavirus vaccines respiratory syncytial virus vaccines tuberculosis vaccines and zoster vaccines Provides up to date authoritative information on vaccine production available preparations efficacy and safety and recommendations for vaccine use with rationales and data on the impact of vaccination programs on morbidity and mortality Provides complete coverage of each disease including clinical characteristics microbiology pathogenesis diagnosis and treatment as well as epidemiology and public health and regulatory issues Keeps you up to date with information on each vaccine including its stability immunogenicity efficacy duration of immunity adverse events indications contraindications precautions administration with other vaccines and disease control strategies Covers vaccine preventable diseases vaccine science and licensed vaccine products as well as product technologies and global regulatory and public health issues Analyzes the cost benefit and cost effectiveness of different vaccine options Helps you clearly visualize concepts and objective data through an abundance of tables and figures Enhanced eBook version included with purchase Your enhanced eBook allows you to access all of the text figures and references from the book on a variety of devices *Medical and Health Care Books and Serials in Print* ,1997 **Medical Books and Serials in Print** ,1983 **Subject Guide to Children's**

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Disease Modelling and Public Health, Part A ,2017-10-13 Disease Modelling and Public Health Part A Volume 36 addresses new challenges in existing and emerging diseases with a variety of comprehensive chapters that cover Infectious Disease Modeling Bayesian Disease Mapping for Public Health Real time estimation of the case fatality ratio and risk factor of death Alternative Sampling Designs for Time To Event Data with Applications to Biomarker Discovery in Alzheimer s Disease Dynamic risk prediction for cardiovascular disease An illustration using the ARIC Study Theoretical advances in type 2 diabetes Finite Mixture Models in Biostatistics and Models of Individual and Collective Behavior for Public Health Epidemiology As a two part volume the series covers an extensive range of techniques in the field It present a vital resource for statisticians who need to access a number of different methods for assessing epidemic spread in population or in formulating public health policy Presents a comprehensive two part volume written by leading subject experts Provides a unique breadth and depth of content coverage Addresses the most cutting edge developments in the field Includes chapters on Ebola and the Zika virus topics which have grown in prominence and scholarly output

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