

Statistics for Biology and Health

Peter Schlattmann

Medical Applications of Finite Mixture Models



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H Kauffman



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Medical Applications of Finite Mixture Models Peter Schlattmann, 2009-03-02 Patients are not alike This simple truth is often ignored in the analysis of medical data since most of the time results are presented for the average patient As a result potential variability between patients is ignored when presenting e.g. the results of a multiple linear regression model In medicine there are more and more attempts to individualize therapy thus from the author's point of view biostatisticians should support these efforts Therefore one of the tasks of the statistician is to identify heterogeneity of patients and if possible to explain part of it with known explanatory covariates Finite mixture models may be used to aid this purpose This book tries to show that there are a large range of applications They include the analysis of gene expression data pharmacokinetics toxicology and the determinants of beta carotene plasma levels Other examples include disease clustering data from psychophysiology and meta analysis of published studies The book is intended as a resource for those interested in applying these methods

Algorithms and Programs of Dynamic Mixture Estimation Ivan Nagy, Evgenia Suzdaleva, 2017-08-14 This book provides a general theoretical background for constructing the recursive Bayesian estimation algorithms for mixture models It collects the recursive algorithms for estimating dynamic mixtures of various distributions and brings them in the unified form providing a scheme for constructing the estimation algorithm for a mixture of components modeled by distributions with reproducible statistics It offers the recursive estimation of dynamic mixtures which are free of iterative processes and close to analytical solutions as much as possible In addition these methods can be used online and simultaneously perform learning which improves their efficiency during estimation The book includes detailed program codes for solving the presented theoretical tasks Codes are implemented in the open source platform for engineering computations The program codes given serve to illustrate the theory and demonstrate the work of the included algorithms

Mixture Modelling for Medical and Health Sciences Shu Kay Ng, Liming Xiang, Kelvin Kai Wing Yau, 2019-05-03 Mixture Modelling for Medical and Health Sciences provides a direct connection between theoretical developments in mixture modelling and their applications in real world problems The book describes the development of the most important concepts through comprehensive analyses of real and practical examples taken from real life research problems in

Modeling Infectious Disease Parameters Based on Serological and Social Contact Data Niel Hens, Ziv Shkedy, Marc Aerts, Christel Faes, Pierre Van Damme, Philippe Beutels, 2012-10-24 Mathematical epidemiology of infectious diseases usually involves describing the flow of individuals between mutually exclusive infection states One of the key parameters describing the transition from the susceptible to the infected class is the hazard of infection often referred to as the force of infection The force of infection reflects the degree of contact with potential for transmission between infected and susceptible individuals The mathematical relation between the force of infection and effective contact patterns is generally assumed to be subjected to the mass action principle which yields the necessary information to estimate the basic

reproduction number another key parameter in infectious disease epidemiology It is within this context that the Center for Statistics CenStat I Biostat Hasselt University and the Centre for the Evaluation of Vaccination and the Centre for Health Economic Research and Modelling Infectious Diseases CEV CHERMID Vaccine and Infectious Disease Institute University of Antwerp have collaborated over the past 15 years This book demonstrates the past and current research activities of these institutes and can be considered to be a milestone in this collaboration This book is focused on the application of modern statistical methods and models to estimate infectious disease parameters We want to provide the readers with software guidance such as R packages and with data as far as they can be made publicly available

Lifetime Data: Models in Reliability and Survival Analysis Nicholas P. Jewell, Alan C. Kimber, Mei-Ling Ting Lee, G. Alex Whitmore, 2013-04-17

Statistical models and methods for lifetime and other time to event data are widely used in many fields including medicine the environmental sciences actuarial science engineering economics management and the social sciences For example closely related statistical methods have been applied to the study of the incubation period of diseases such as AIDS the remission time of cancers life tables the time to failure of engineering systems employment duration and the length of marriages This volume contains a selection of papers based on the 1994 International Research Conference on Lifetime Data Models in Reliability and Survival Analysis held at Harvard University The conference brought together a varied group of researchers and practitioners to advance and promote statistical science in the many fields that deal with lifetime and other time to event data The volume illustrates the depth and diversity of the field A few of the authors have published their conference presentations in the new journal Lifetime Data Analysis Kluwer Academic Publishers

Bayesian Hierarchical Models Peter D. Congdon, 2019-09-16

An intermediate level treatment of Bayesian hierarchical models and their applications this book demonstrates the advantages of a Bayesian approach to data sets involving inferences for collections of related units or variables and in methods where parameters can be treated as random collections Through illustrative data analysis and attention to statistical computing this book facilitates practical implementation of Bayesian hierarchical methods The new edition is a revision of the book Applied Bayesian Hierarchical Methods It maintains a focus on applied modelling and data analysis but now using entirely R based Bayesian computing options It has been updated with a new chapter on regression for causal effects and one on computing options and strategies This latter chapter is particularly important due to recent advances in Bayesian computing and estimation including the development of rjags and rstan It also features updates throughout with new examples The examples exploit and illustrate the broader advantages of the R computing environment while allowing readers to explore alternative likelihood assumptions regression structures and assumptions on prior densities Features Provides a comprehensive and accessible overview of applied Bayesian hierarchical modelling Includes many real data examples to illustrate different modelling topics R code based on rjags jagsUI R2OpenBUGS and rstan is integrated into the book emphasizing implementation Software options and coding principles are introduced in new chapter on computing

Programs and data sets available on the book's website

CMBEBIH 2017 Almir Badnjevic, 2017-03-14 This volume presents the proceedings of the International Conference on Medical and Biological Engineering held from 16 to 18 March 2017 in Sarajevo Bosnia and Herzegovina Focusing on the theme of Pursuing innovation Shaping the future it highlights the latest advancements in Biomedical Engineering and also presents the latest findings innovative solutions and emerging challenges in this field Topics include Biomedical Signal Processing Biomedical Imaging and Image Processing Biosensors and Bioinstrumentation Bio Micro Nano Technologies Biomaterials Biomechanics Robotics and Minimally Invasive Surgery Cardiovascular Respiratory and Endocrine Systems Engineering Neural and Rehabilitation Engineering Molecular Cellular and Tissue Engineering Bioinformatics and Computational Biology Clinical Engineering and Health Technology Assessment Health Informatics E Health and Telemedicine Biomedical Engineering Education Pharmaceutical Engineering

The British National Bibliography Arthur James Wells, 2009

Modern Methods for Epidemiology Yu-Kang Tu, Darren C. Greenwood, 2012-05-22 Routine applications of advanced statistical methods on real data have become possible in the last ten years because desktop computers have become much more powerful and cheaper However proper understanding of the challenging statistical theory behind those methods remains essential for correct application and interpretation and rarely seen in the medical literature Modern Methods for Epidemiology provides a concise introduction to recent development in statistical methodologies for epidemiological and biomedical researchers Many of these methods have become indispensable tools for researchers working in epidemiology and medicine but are rarely discussed in details by standard textbooks of biostatistics or epidemiology Contributors of this book are experienced researchers and experts in their respective fields This textbook provides a solid starting point for those who are new to epidemiology and for those looking for guidance in more modern statistical approaches to observational epidemiology Epidemiological and biomedical researchers who wish to overcome the mathematical barrier of applying those methods to their research will find this book an accessible and helpful reference for self learning and research This book is also a good source for teaching postgraduate students in medical statistics or epidemiology

Biomedical Index to PHS-supported Research, 1989

American Doctoral Dissertations, 2000

Annual Report Radiation Effects Research Foundation, 2006

Journal of Quantitative Anthropology, 1991

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Biomedical Informatics Edward H. Shortliffe, James J. Cimino, 2021-05-31 This 5th edition of this essential textbook continues to meet the growing demand of practitioners researchers educators and students for a comprehensive introduction to key topics in biomedical informatics and the underlying scientific issues that sit at the intersection of biomedical science patient care public health and information technology IT Emphasizing the conceptual basis of the field rather than technical details it provides the tools for study required for readers to comprehend assess and utilize biomedical informatics and health IT It focuses on practical examples a guide to additional literature chapter summaries and a comprehensive glossary with concise definitions of recurring terms

for self study or classroom use Biomedical Informatics Computer Applications in Health Care and Biomedicine reflects the remarkable changes in both computing and health care that continue to occur and the exploding interest in the role that IT must play in care coordination and the melding of genomics with innovations in clinical practice and treatment New and heavily revised chapters have been introduced on human computer interaction mHealth personal health informatics and precision medicine while the structure of the other chapters has undergone extensive revisions to reflect the developments in the area The organization and philosophy remain unchanged focusing on the science of information and knowledge management and the role of computers and communications in modern biomedical research health and health care

AMSTAT News American Statistical Association,2000 Dissertation Abstracts International ,2004 **Aerospace Medicine and Biology** ,1983 A selection of annotated references to unclassified reports and journal articles that were introduced into the NASA scientific and technical information system and announced in Scientific and technical aerospace reports STAR and International aerospace abstracts IAA *Catalogs of Courses* University of California, Berkeley,1988 Includes general and summer catalogs issued between 1878 1879 and 1995 1997

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