

Richard J. Cook · Gerald R. Lawless

The Statistical Analysis of Recurrent Events

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The Statistical Analysis Of Recurrent Events

Lei Liu



The Statistical Analysis Of Recurrent Events:

The Statistical Analysis of Recurrent Events Richard J. Cook, Jerald Lawless, 2007-08-02 This book presents models and statistical methods for the analysis of recurrent event data The authors provide broad detailed coverage of the major approaches to analysis while emphasizing the modeling assumptions that they are based on More general intensity based models are also considered as well as simpler models that focus on rate or mean functions Parametric nonparametric and semiparametric methodologies are all covered with procedures for estimation testing and model checking

The Statistical Analysis of Recurrent Events Richard J. Cook, Jerald Lawless, 2008-11-01 This book presents models and statistical methods for the analysis of recurrent event data The authors provide broad detailed coverage of the major approaches to analysis while emphasizing the modeling assumptions that they are based on More general intensity based models are also considered as well as simpler models that focus on rate or mean functions Parametric nonparametric and semiparametric methodologies are all covered with procedures for estimation testing and model checking

Statistical Analysis of Panel Count Data Jianguo Sun, Xingqiu Zhao, 2013-10-09 Panel count data occur in studies that concern recurrent events or event history studies when study subjects are observed only at discrete time points By recurrent events we mean the event that can occur or happen multiple times or repeatedly Examples of recurrent events include disease infections hospitalizations in medical studies warranty claims of automobiles or system break downs in reliability studies In fact many other fields yield event history data too such as demographic studies economic studies and social sciences For the cases where the study subjects are observed continuously the resulting data are usually referred to as recurrent event data This book collects and unifies statistical models and methods that have been developed for analyzing panel count data It provides the first comprehensive coverage of the topic The main focus is on methodology but for the benefit of the reader the applications of the methods to real data are also discussed along with numerical calculations There exists a great deal of literature on the analysis of recurrent event data This book fills the void in the literature on the analysis of panel count data This book provides an up to date reference for scientists who are conducting research on the analysis of panel count data It will also be instructional for those who need to analyze panel count data to answer substantive research questions In addition it can be used as a text for a graduate course in statistics or biostatistics that assumes a basic knowledge of probability and statistics

Statistical Analysis of Recurrent Events by Point Process Gyeongtae Hong, 2019 *The Statistical Analysis of Interval-censored Failure Time Data* Jianguo Sun, 2007-05-26 This book collects and unifies statistical models and methods that have been proposed for analyzing interval censored failure time data It provides the first comprehensive coverage of the topic of interval censored data and complements the books on right censored data The focus of the book is on nonparametric and semiparametric inferences but it also describes parametric and imputation approaches This book provides an up to date reference for people who are conducting research on the analysis of interval censored failure time

data as well as for those who need to analyze interval censored data to answer substantive questions **The Statistical Analysis of Failure Time Data** John D. Kalbfleisch, Ross L. Prentice, 2011-01-25 Contains additional discussion and examples on left truncation as well as material on more general censoring and truncation patterns Introduces the martingale and counting process formulation which will be in a new chapter Develops multivariate failure time data in a separate chapter and extends the material on Markov and semi Markov formulations Presents new examples and applications of data analysis

The Statistical Analysis of Multivariate Failure Time Data Ross L. Prentice, Shanshan Zhao, 2019-05-14 The Statistical Analysis of Multivariate Failure Time Data A Marginal Modeling Approach provides an innovative look at methods for the analysis of correlated failure times The focus is on the use of marginal single and marginal double failure hazard rate estimators for the extraction of regression information For example in a context of randomized trial or cohort studies the results go beyond that obtained by analyzing each failure time outcome in a univariate fashion The book is addressed to researchers practitioners and graduate students and can be used as a reference or as a graduate course text Much of the literature on the analysis of censored correlated failure time data uses frailty or copula models to allow for residual dependencies among failure times given covariates In contrast this book provides a detailed account of recently developed methods for the simultaneous estimation of marginal single and dual outcome hazard rate regression parameters with emphasis on multiplicative Cox models Illustrations are provided of the utility of these methods using Women's Health Initiative randomized controlled trial data of menopausal hormones and of a low fat dietary pattern intervention As byproducts these methods provide flexible semiparametric estimators of pairwise bivariate survivor functions at specified covariate histories as well as semiparametric estimators of cross ratio and concordance functions given covariates The presentation also describes how these innovative methods may extend to handle issues of dependent censorship missing and mismeasured covariates and joint modeling of failure times and covariates setting the stage for additional theoretical and applied developments This book extends and continues the style of the classic Statistical Analysis of Failure Time Data by Kalbfleisch and Prentice Ross L Prentice is Professor of Biostatistics at the Fred Hutchinson Cancer Research Center and University of Washington in Seattle Washington He is the recipient of COPSS Presidents and Fisher awards the AACR Epidemiology Prevention and Team Science awards and is a member of the National Academy of Medicine Shanshan Zhao is a Principal Investigator at the National Institute of Environmental Health Sciences in Research Triangle Park North Carolina

Advances in Survival Analysis Narayanaswamy Balakrishnan, C.R. Rao, 2004-01-30 Handbook of Statistics Advances in Survival Analysis covers all important topics in the area of Survival Analysis Each topic has been covered by one or more chapters written by internationally renowned experts Each chapter provides a comprehensive and up to date review of the topic Several new illustrative examples have been used to demonstrate the methodologies developed The book also includes an exhaustive list of important references in the area of Survival Analysis Includes up to date reviews on many important

topics Chapters written by many internationally renowned experts Some Chapters provide completely new methodologies and analyses Includes some new data and methods of analyzing them **Event History and Survival Analysis** Paul D. Allison, 2014-02-19 Social scientists are interested in events and their causes Although event histories are ideal for studying the causes of events they typically possess two features censoring and time varying explanatory variables that create major problems for standard statistical procedures Several innovative approaches have been developed to accommodate these two peculiarities of event history data This volume surveys these methods concentrating on the approaches that are most useful to the social sciences In particular Paul D Allison focuses on regression methods in which the occurrence of events is dependent on one or more explanatory variables He gives attention to the statistical models that form the basis of event history analysis and also to practical concerns such as data management cost and useful computer software The Second Edition is part of SAGE's Quantitative Applications in the Social Sciences QASS series which continues to serve countless students instructors and researchers in learning the most cutting edge quantitative techniques **Survival and Event History Analysis** Odd Aalen, Ornulf Borgan, Hakon Gjessing, 2008-09-16 The aim of this book is to bridge the gap between standard textbook models and a range of models where the dynamic structure of the data manifests itself fully The common denominator of such models is stochastic processes The authors show how counting processes martingales and stochastic integrals fit very nicely with censored data Beginning with standard analyses such as Kaplan Meier plots and Cox regression the presentation progresses to the additive hazard model and recurrent event data Stochastic processes are also used as natural models for individual frailty they allow sensible interpretations of a number of surprising artifacts seen in population data The stochastic process framework is naturally connected to causality The authors show how dynamic path analyses can incorporate many modern causality ideas in a framework that takes the time aspect seriously To make the material accessible to the reader a large number of practical examples mainly from medicine are developed in detail Stochastic processes are introduced in an intuitive and non technical manner The book is aimed at investigators who use event history methods and want a better understanding of the statistical concepts It is suitable as a textbook for graduate courses in statistics and biostatistics **Interdisciplinary Bayesian Statistics** Adriano Polpo, Francisco Louzada, Laura L. R. Rifo, Julio M. Stern, Marcelo Lauretto, 2015-02-25 Through refereed papers this volume focuses on the foundations of the Bayesian paradigm their comparison to objectivistic or frequentist Statistics counterparts and the appropriate application of Bayesian foundations This research in Bayesian Statistics is applicable to data analysis in biostatistics clinical trials law engineering and the social sciences EBEB the Brazilian Meeting on Bayesian Statistics is held every two years by the ISBrA the International Society for Bayesian Analysis one of the most active chapters of the ISBA The 12th meeting took place March 10-14 2014 in Atibaia Interest in foundations of inductive Statistics has grown recently in accordance with the increasing availability of Bayesian methodological alternatives Scientists need to deal with the ever more difficult choice of the optimal

method to apply to their problem This volume shows how Bayes can be the answer The examination and discussion on the foundations work towards the goal of proper application of Bayesian methods by the scientific community Individual papers range in focus from posterior distributions for non dominated models to combining optimization and randomization approaches for the design of clinical trials and classification of archaeological fragments with Bayesian networks **Journal of the National Cancer Institute** ,2001-03 Encyclopedia of Medical Decision Making Michael W. Kattan,2009-08-15

Decision making is a critical element in the field of medicine that can lead to life or death outcomes yet it is an element fraught with complex and conflicting variables diagnostic and therapeutic uncertainties patient preferences and values and costs Together decisions made by physicians patients insurers and policymakers determine the quality of health care quality that depends inherently on counterbalancing risks and benefits and competing objectives such as maximizing life expectancy versus optimizing quality of life or quality of care versus economic realities Broadly speaking concepts in medical decision making MDM may be divided into two major categories prescriptive and descriptive Work in the area of prescriptive MDM investigates how medical decisions should be done using complicated analyses and algorithms to determine cost effectiveness measures prediction methods and so on In contrast descriptive MDM studies how decisions actually are made involving human judgment biases social influences patient factors and so on The Encyclopedia of Medical Decision Making gives a gentle introduction to both categories revealing how medical and healthcare decisions are actually made and constrained and how physician healthcare management and patient decision making can be improved to optimize health outcomes Key Features Discusses very general issues that span many aspects of MDM including bioethics health policy and economics disaster simulation modeling medical informatics the psychology of decision making shared and team medical decision making social moral and religious factors end of life decision making assessing patient preference and patient adherence and more Incorporates both quantity and quality of life in optimizing a medical decision Considers characteristics of the decisionmaker and how those characteristics influence their decisions Presents outcome measures to judge the quality or impact of a medical decision Examines some of the more commonly encountered biostatistical methods used in prescriptive decision making Provides utility assessment techniques that facilitate quantitative medical decision making Addresses the many different assumption perspectives the decision maker might choose from when trying to optimize a decision Offers mechanisms for defining MDM algorithms With comprehensive and authoritative coverage by experts in the fields of medicine decision science and cognitive psychology and healthcare management this two volume Encyclopedia is a must have resource for any academic library Analysis of Multivariate Survival Data Philip Hougaard,2012-12-06 Survival data or more general time to event data occur in many areas including medicine biology engineering economics and demography but previously standard methods have requested that all time variables are univariate and independent This book extends the field by allowing for multivariate times Applications where such data appear are survival of twins survival of

married couples and families time to failure of right and left kidney for diabetic patients life history data with time to outbreak of disease complications and death recurrent episodes of diseases and cross over studies with time responses As the field is rather new the concepts and the possible types of data are described in detail and basic aspects of how dependence can appear in such data is discussed Four different approaches to the analysis of such data are presented The multi state models where a life history is described as the subject moving from state to state is the most classical approach The Markov models make up an important special case but it is also described how easily more general models are set up and analyzed Frailty models which are random effects models for survival data made a second approach extending from the most simple shared frailty models which are considered in detail to models with more complicated dependence structures over individuals or over time Marginal modelling has become a popular approach to evaluate the effect of explanatory factors in the presence of dependence but without having specified a statistical model for the dependence Finally the completely non parametric approach to bivariate censored survival data is described This book is aimed at investigators who need to analyze multivariate survival data but due to its focus on the concepts and the modelling aspects it is also useful for persons interested in such data but

Modeling Recurrent Events and Medical Cost Data in the Presence of a Correlated Terminating Event Lei Liu,2004 **Capture-Recapture Methods for the Social and Medical Sciences** Dankmar

Bohning,Peter G.M. van der Heijden,John Bunge,2017-07-28 Capture recapture methods have been used in biology and ecology for more than 100 years However it is only recently that these methods have become popular in the social and medical sciences to estimate the size of elusive populations such as illegal immigrants illicit drug users or people with a drinking problem Capture Recapture Methods for the Social and Medical Sciences brings together important developments which allow the application of these methods It has contributions from more than 40 researchers and is divided into eight parts including topics such as ratio regression models capture recapture meta analysis extensions of single and multiple source models latent variable models and Bayesian approaches The book is suitable for everyone who is interested in applying capture recapture methods in the social and medical sciences Furthermore it is also of interest to those working with capture recapture methods in biology and ecology as there are some important developments covered in the book that also apply to these classical application areas [Proceedings of the Sixth International Scientific Conference “Intelligent Information Technologies for Industry” \(IITI’22\)](#) Sergey Kovalev,Andrey Sukhanov,Imran Akperov,Sebnem

Ozdemir,2022-10-30 This book contains the works connected with the key advances in Intelligent Information Technologies for Industry presented in the main track of IITI 2022 the Sixth International Scientific Conference on Intelligent Information Technologies for Industry held on October 31 November 6 2022 in Istanbul Turkey The works were written by the experts in the field of artificial intelligence including topics such as machine learning decision making intelligent systems fuzzy logic bioinspired systems and Bayesian networks The following industrial application domains were touched railway automation

intelligent medical systems flexible socio technical systems navigation systems and energetic systems The editors believe that this book will be helpful for all scientists and engineers interested in the modern state of applied artificial intelligence

Artificial Intelligence in Models, Methods and Applications Olga Dolinina,Igor Bessmertny,Alexander Brovko,Vladik Kreinovich,Vitaly Pechenkin,Alexey Lvov,Vadim Zhmud,2023-04-24 This book is based on the accepted research papers presented in the International Conference Artificial Intelligence in Engineering Science AIES 2022 The aim of the AIES Conference is to bring together researchers involved in the theory of computational intelligence knowledge engineering fuzzy systems soft computing machine learning and related areas and applications in engineering bioinformatics industry medicine energy smart city social spheres and other areas This book presents new perspective research results models methods algorithms and applications in the field of Artificial Intelligence AI Particular emphasis is given to the medical applications medical images recognition development of the expert systems which could be interesting for the AI researchers as well for the physicians looking for the new ideas in medicine The central audience of the book are researchers industrial practitioners students specialized in the Artificial Intelligence

Models for Multi-State Survival Data Per Kragh Andersen,Henrik Ravn,2023-10-11 Multi state models provide a statistical framework for studying longitudinal data on subjects when focus is on the occurrence of events that the subjects may experience over time They find application particularly in biostatistics medicine and public health The book includes mathematical detail which can be skipped by readers more interested in the practical examples It is aimed at biostatisticians and at readers with an interest in the topic having a more applied background such as epidemiology This book builds on several courses the authors have taught on the subject Key Features Intensity based and marginal models Survival data competing risks illness death models recurrent events Includes a full chapter on pseudo values Intuitive introductions and mathematical details Practical examples of event history data Exercises Software code in R and SAS and the data used in the book as well as solutions to the exercises can be found on the book s webpage <https://multi-state-book.github.io/companion>

Biopharmaceutical Applied Statistics Symposium Karl E. Peace,Ding-Geng Chen,Sandeep Menon,2018-08-20 This BASS book Series publishes selected high quality papers reflecting recent advances in the design and biostatistical analysis of biopharmaceutical experiments particularly biopharmaceutical clinical trials The papers were selected from invited presentations at the Biopharmaceutical Applied Statistics Symposium BASS which was founded by the first Editor in 1994 and has since become the premier international conference in biopharmaceutical statistics The primary aims of the BASS are 1 to raise funding to support graduate students in biostatistics programs and 2 to provide an opportunity for professionals engaged in pharmaceutical drug research and development to share insights into solving the problems they encounter The BASS book series is initially divided into three volumes addressing 1 Design of Clinical Trials 2 Biostatistical Analysis of Clinical Trials and 3 Pharmaceutical Applications This book is the first of the 3 volumebook series The topics covered include A Statistical Approach to Clinical Trial Simulations

Comparison of Statistical Analysis Methods Using Modeling and Simulation for Optimal Protocol Design Adaptive Trial Design in Clinical Research Best Practices and Recommendations for Trial Simulations in the Context of Designing Adaptive Clinical Trials Designing and Analyzing Recurrent Event Data Trials Bayesian Methodologies for Response Adaptive Allocation Addressing High Placebo Response in Neuroscience Clinical Trials Phase I Cancer Clinical Trial Design Single and Combination Agents Sample Size and Power for the Mixed Linear Model Crossover Designs in Clinical Trials Data Monitoring Structure for Clinical Trials and Sequential Monitoring Procedures Design and Data Analysis for Multiregional Clinical Trials Theory and Practice Adaptive Group Sequential Multi regional Outcome Studies in Vaccines Development and Validation of Patient reported Outcomes Interim Analysis of Survival Trials Group Sequential Analyses and Conditional Power A Non proportional Hazards Perspective

The Statistical Analysis Of Recurrent Events Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**The Statistical Analysis Of Recurrent Events**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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The Statistical Analysis Of Recurrent Events Introduction

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