

Wiley Series in Probability and Statistics

STATISTICAL METHODS FOR SURVIVAL DATA ANALYSIS

FOURTH EDITION

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Statistical Methods For Survival Data Analysis

JR Anderson



Statistical Methods For Survival Data Analysis:

Statistical Methods for Survival Data Analysis Elisa T. Lee, John Wenyu Wang, 2013-09-23 Praise for the Third Edition an easy to read introduction to survival analysis which covers the major concepts and techniques of the subject Statistics in Medical Research Updated and expanded to reflect the latest developments Statistical Methods for Survival Data Analysis Fourth Edition continues to deliver a comprehensive introduction to the most commonly used methods for analyzing survival data Authored by a uniquely well qualified author team the Fourth Edition is a critically acclaimed guide to statistical methods with applications in clinical trials epidemiology areas of business and the social sciences The book features many real world examples to illustrate applications within these various fields although special consideration is given to the study of survival data in biomedical sciences Emphasizing the latest research and providing the most up to date information regarding software applications in the field Statistical Methods for Survival Data Analysis Fourth Edition also includes Marginal and random effect models for analyzing correlated censored or uncensored data Multiple types of two sample and K sample comparison analysis Updated treatment of parametric methods for regression model fitting with a new focus on accelerated failure time models Expanded coverage of the Cox proportional hazards model Exercises at the end of each chapter to deepen knowledge of the presented material Statistical Methods for Survival Data Analysis is an ideal text for upper undergraduate and graduate level courses on survival data analysis The book is also an excellent resource for biomedical investigators statisticians and epidemiologists as well as researchers in every field in which the analysis of survival data plays a role

Handbook of Survival Analysis John P. Klein, Hans C. van Houwelingen, Joseph G. Ibrahim, Thomas H. Scheike, 2016-04-19 Handbook of Survival Analysis presents modern techniques and research problems in lifetime data analysis This area of statistics deals with time to event data that is complicated by censoring and the dynamic nature of events occurring in time With chapters written by leading researchers in the field the handbook focuses on advances in survival analysis techniques covering classical and Bayesian approaches It gives a complete overview of the current status of survival analysis and should inspire further research in the field Accessible to a wide range of readers the book provides An introduction to various areas in survival analysis for graduate students and novices A reference to modern investigations into survival analysis for more established researchers A text or supplement for a second or advanced course in survival analysis A useful guide to statistical methods for analyzing survival data experiments for practicing statisticians

Statistical Methods for Survival Data Analysis Elisa T. Lee, John Wang, 2003-08-01 Third Edition brings the text up to date with new material and updated references New content includes an introduction to left and interval censored data the log logistic distribution estimation procedures for left and interval censored data parametric methods iwth covariates Cox s proportional hazards model including stratification and time dependent covariates and multiple responses to the logistic regression model Coverage of graphical methods has been deleted Large data sets are provided on an FTP site for readers

convenience Bibliographic remarks conclude each chapter *Statistical Methods for Survival Data Analysis* Elisa T. Lee, John Wang, 2003-07-21 Third Edition brings the text up to date with new material and updated references New content includes an introduction to left and interval censored data the log logistic distribution estimation procedures for left and interval censored data parametric methods iwth covariates Cox s proportional hazards model including stratification and time dependent covariates and multiple responses to the logistic regression model Coverage of graphical methods has been deleted Large data sets are provided on an FTP site for readers convenience Bibliographic remarks conclude each chapter

Statistical Methods on Survival Data with Measurement Error Ying Yan, University of Waterloo. Department of Statistics and Actuarial Science, 2014 In survival data analysis covariates are often subject to measurement error A naive analysis with measurement error ignored commonly leads to biased estimation of parameters of survival models Measurement error also causes efficiency loss for detecting possible association between risk factors and time to event Furthermore it induces difficulty on model building and model checking because the presence of measurement error frequently masks true underlying patterns of data Although there has been a large body of literature to handle error prone survival data since the paper by Prentice 1982 many important issues still remain unexplored in this area This thesis focuses on several important issues of survival analysis with covariate measurement error One problem that has received little attention is on misspecification of measurement error models In this thesis we investigate this important problem with the attention particularly paid to error contaminated survival data under the Cox model In particular we conduct bias analysis which offers a way to unify many existing methods of survival data with measurement error and study the impact of misspecifying the error models in survival data analysis A simple expression is obtained to quantify the bias of working estimators derived under misspecified error models Consistent estimators under general error models are derived based on this simple expression Furthermore we study hypothesis testing with both model misspecification and measurement error present A second problem of our interest is about the validity of survival model assumptions when measurement error is involved In the literature a large number of methods have been developed to correct for measurement error effects and these methods basically assume the survival model to be the Cox model When the Cox model or the error model assumptions fail to hold existing methods would break down In this thesis we address the issue of checking the Cox model assumptions with measurement error We propose valid goodness of fit tests for survival data with covariate measurement error This research offers us an important addition to the literature of survival data with measurement error Our third topic concerns survival data analysis under additive hazards models with covariate measurement error The additive hazards model is a useful and important alternative to the Cox model However this model is relatively less studied for situations where covariates are measured with error In this thesis we make important contributions to this topic Specifically we explore asymptotic bias induced from ignoring measurement error A number of inference methods are developed to correct for error effects The

validity of the proposed methods is justified both theoretically and empirically We investigate issues of model checking and model misspecification as well In many studies collection of data often includes a large number of variables in which many of them are unimportant in explaining survival of an individual An important task is thus to identify relevant risk factors which are linked to the hazards of subjects Although there is work on variable selection for survival data analysis the available methods typically require all variables be precisely measured This requirement is however often infeasible More challengingly in some studies the dimension of the risk factors can be quite large or even much larger than the size of subjects Our fourth topic concerns about estimation and variable selection for survival data with high dimensional mismeasured covariates We propose corrected penalized methods Our methods can adjust for measurement error effects and perform estimation and variable selection simultaneously Our research on this topic closes multiple gaps among the areas of survival analysis measurement error and variable selection

Analysis of Survival Data D.R. Cox, David Oakes, 2018-02-19 This monograph contains many ideas on the analysis of survival data to present a comprehensive account of the field The value of survival analysis is not confined to medical statistics where the benefit of the analysis of data on such factors as life expectancy and duration of periods of freedom from symptoms of a disease as related to a treatment applied individual histories and so on is obvious The techniques also find important applications in industrial life testing and a range of subjects from physics to econometrics In the eleven chapters of the book the methods and applications of are discussed and illustrated by examples

Survival Analysis Prabhanjan Narayanachar Tattar, H J Vaman, 2022-08-26 Survival analysis generally deals with analysis of data arising from clinical trials Censoring truncation and missing data create analytical challenges and the statistical methods and inference require novel and different approaches for analysis Statistical properties essentially asymptotic ones of the estimators and tests are aptly handled in the counting process framework which is drawn from the larger arm of stochastic calculus With explosion of data generation during the past two decades survival data has also enlarged assuming a gigantic size Most statistical methods developed before the millennium were based on a linear approach even in the face of complex nature of survival data Nonparametric nonlinear methods are best envisaged in the Machine Learning school This book attempts to cover all these aspects in a concise way Survival Analysis offers an integrated blend of statistical methods and machine learning useful in analysis of survival data The purpose of the offering is to give an exposure to the machine learning trends for lifetime data analysis Features Classical survival analysis techniques for estimating statistical functional and hypotheses testing Regression methods covering the popular Cox relative risk regression model Aalen's additive hazards model etc Information criteria to facilitate model selection including Akaike Bayes and Focused Penalized methods Survival trees and ensemble techniques of bagging boosting and random survival forests A brief exposure of neural networks for survival data R program illustration throughout the book

Survival Analysis Alejandro Quiroz Flores, 2022-05-26 Quantitative social scientists use survival analysis to understand the forces that

determine the duration of events This Element provides a guideline to new techniques and models in survival analysis particularly in three areas non proportional covariate effects competing risks and multi state models It also revisits models for repeated events The Element promotes multi state models as a unified framework for survival analysis and highlights the role of general transition probabilities as key quantities of interest that complement traditional hazard analysis These quantities focus on the long term probabilities that units will occupy particular states conditional on their current state and they are central in the design and implementation of policy interventions

Statistical Methods for Reliability Data William Q. Meeker, Luis A. Escobar, 2014-08-21 Amstat News asked three review editors to rate their top five favorite books in the September 2003 issue Statistical Methods for Reliability Data was among those chosen Bringing statistical methods for reliability testing in line with the computer age This volume presents state of the art computer based statistical methods for reliability data analysis and test planning for industrial products Statistical Methods for Reliability Data updates and improves established techniques as it demonstrates how to apply the new graphical numerical or simulation based methods to a broad range of models encountered in reliability data analysis It includes methods for planning reliability studies and analyzing degradation data simulation methods used to complement large sample asymptotic theory general likelihood based methods of handling arbitrarily censored data and truncated data and more In this book engineers and statisticians in industry and academia will find A wealth of information and procedures developed to give products a competitive edge Simple examples of data analysis computed with the S PLUS system for which a suite of functions and commands is available over the Internet End of chapter real data exercise sets Hundreds of computer graphics illustrating data results of analyses and technical concepts An essential resource for practitioners involved in product reliability and design decisions Statistical Methods for Reliability Data is also an excellent textbook for on the job training courses and for university courses on applied reliability data analysis at the graduate level An Instructor s Manual presenting detailed solutions to all the problems in the book is available upon request from the Wiley editorial department

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