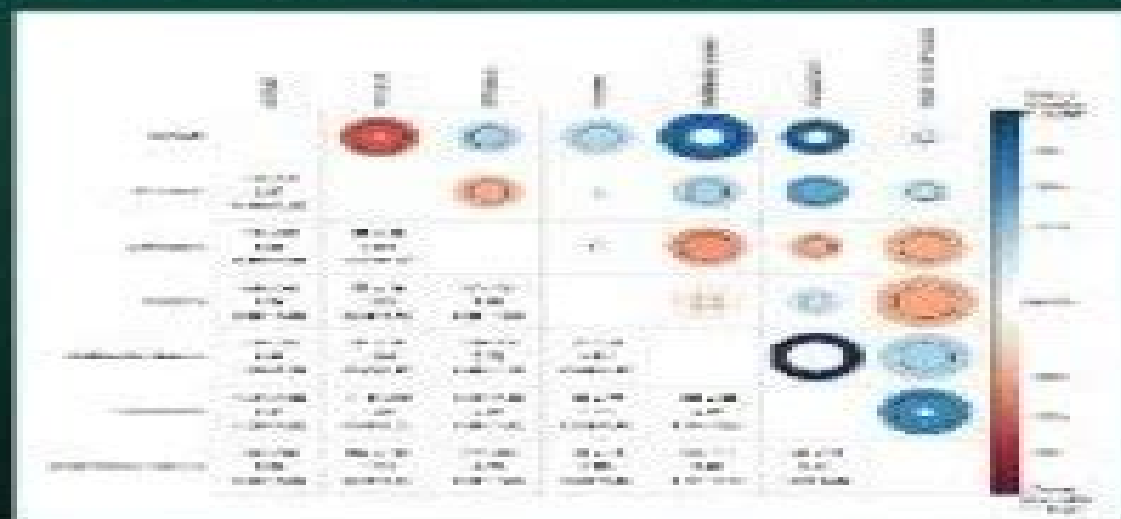# The Statistical Analysis of Multivariate Failure Time Data
A Marginal Modeling Approach

Ross L. Prentice

Shanshan Zhao

Statistical Analysis Of Failure Time Data

Kenneth G. Manton,Max A. Woodbury,H. Dennis Tolley

Statistical Analysis Of Failure Time Data:

The Statistical Analysis of Failure Time Data John D. Kalbfleisch,Ross L. Prentice,2011-01-25 Contains additional discussion and examples on left truncationas well as material on more general censoring and truncationpatterns Introduces the martingale and counting process formulation swillbe in a new chapter Develops multivariate failure time data in a separate chapterand extends the material on Markov and semi Markovformulations Presents new examples and applications of data analysis **The Statistical Analysis of Failure Time Data** J. D. Kalbfleisch,1984 **Survival Analysis** Toby Miller,1997-08 **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 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

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

Statistical Analysis of Failure Time Data with Missing Information Ping Chen,2009 Failure time data arise in many fields and can involve different types of censoring structures and missing information We consider three cases right censored data with missing censoring indicators clustered current status data and clustered interval censored data Chapter 2 discusses regression analysis of right censored failure time data with missing censoring indicators and presents an efficient estimation procedure based on the EM algorithm The simulation study performed indicates that the proposed methodology performs well for practical situations An illustrative example from a breast cancer clinical trial is provided Chapter 3 discusses regression analysis of clustered current status data For inference a Cox frailty model and a two step EM algorithm are presented A simulation study was conducted for the evaluation of the proposed methodology and indicates that the approach

performs well for practical situations An illustrative example from a tumorigenicity experiment is provided Chapter 4 generalizes the study of Chapter 3 to clustered interval censored data Chapter 5 discusses some directions for future research   *Journal of Statistical Research* ,2000   **Journal of the American Statistical Association** ,2008   **OSU Statistics Technical Report** Ohio State University. Department of Statistics,1995   *Readings in Population Research Methodology: Mortality research* Donald J. Bogue,Eduardo E. Arriaga,Douglas L. Anderton,1993   **Queen's Papers in Pure and Applied Mathematics** Queen's University (Kingston, Ont.),1994   Biometrics ,1998   *Common Principal Components and Related Multivariate Models* Bernhard Flury,1988-11-02 Recent developments in the theory of principal component analysis have led to generalizations to cases where data fall in natural groups This book offers for the first time a comprehensive view of the topics presented the mathematical theory applications to real data and computational techniques Treats both the classical method and recent generalizations including the model of proportional covariance matrices and the common principal component model and its variations Methods are illustrated by numerical examples based on real data The book should appeal to both mathematical and applied statisticians and numerical analysts will appreciate the material on simultaneous diagonalization of symmetric matrices   **Statistical Inference in Linear Models** Helga Bunke,Olaf Bunke,1986 This is a comprehensive account of the theory of the linear model and covers a wide range of statistical methods   **Structural Sensitivity in Econometric Models** Edwin Kuh,John W. Neese,Peter Hollinger,1985 This reference assesses the value of linear dynamic system analysis for understanding how complex econometric models work Emphasizing methodology in the context of a medium sized econometric model the Michigan Quarterly Econometric Model of the U S it examines various analytical techniques including systematic assessment of parameter sensitivity sorting out procedures and some properties of the MQEM The book augments the standard black box approach to analyzing economic model structure with more powerful concepts   **Survival Analysis with Long-Term Survivors** Ross A. Maller,Xian Zhou,1996 The aim of this book is to suggest and exemplify a systematic methodology for analysing survival data which contains immune or cured individuals denoted generically as long term survivors Such data occurs in medical and epidemiological applications where the intention may be to identify whether or not cured or immune individuals are present in a population perhaps as a result of treatments given in the analysis of recidivism data in criminology where the intentions are similar with respect to prisoners released from and possibly returning to prison and in many other areas where followup data is available on individuals with the possibility that not all suffer the event under investigation Both nonparametric and parametric methods are proposed and developed The effects of covariate information can be assessed via a kind of generalised linear framework in the parametric analyses The proposed methodologies are supported by asymptotic analyses and simulations of real situations While these theoretical underpinnings are presented in reasonable rigour and detail the book is aimed very much at the practitioner who wishes to analyse survival data with or even without immunes   **Statistical Applications Using**

Fuzzy Sets Kenneth G. Manton,Max A. Woodbury,H. Dennis Tolley,1994-04-27 In each case the results are compared to the alternative competing analytic procedures such as latent class analysis and are shown to fit the data better provide substantively more meaningful results and generate excellent predictions of external variables not used to form the basic dimensions of the model   Operational Subjective Statistical Methods Frank Lad,1996-09-27 The mathematical implications of personal beliefs and values in science and commerce Amid a worldwide resurgence of interest in subjectivist statistical method this book offers a fresh look at the role of personal judgments in statistical analysis Frank Lad demonstrates how philosophical attention to meaning provides a sensible assessment of the prospects and procedures of empirical inferential learning Operational Subjective Statistical Methods offers a systematic investigation of Bruno de Finetti s theory of probability and logic of uncertainty which recognizes probability as the measure of personal uncertainty at the heart of its mathematical presentation It identifies de Finetti s fundamental theorem of coherent provision as the unifying structure of probabilistic logic and highlights the judgment of exchangeability rather than causal independence as the key probabilistic component of statistical inference Broad in scope yet firmly grounded in mathematical detail this text reference Invites readers to address the subjective personalist meaning of probability as motivating the mathematical construction Contains numerous examples and problems including computing problems using Matlab assuming no background in Matlab Explains how to use the material in three distinct sequential courses in math and statistics as well as in courses at the graduate level in applied fields Provides an introductory basis for understanding more complex structures of statistical analysis Complete with fifty illustrations Operational Subjective Statistical Methods makes an intriguing discipline accessible to professionals students and the interested general reader It contains a wealth of teaching and research material and offers profound insight into the relationship between philosophy faith and scientific method   Journal of Official Statistics ,1985

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