Semiparametric estimation of structural failure time model in continuous-time processes

Shu Yang* Karen Pieper† and Frank Cools‡

Abstract

Structural failure time models are causal models for estimating the effect of time-varying treatments on a survival outcome. G-estimation and artificial censoring have been proposed to estimate the model parameters in the presence of time-dependent confounding and administrative censoring. However, most of existing methods require preprocessing data into regularly spaced data such as monthly data, and the computation and inference are challenging due to the non-smoothness of artificial censoring. We propose a class of continuous-time structural failure time models and semiparametric estimators, which do not restrict to regularly spaced data. We show that our estimators are doubly robust, in the sense that the estimators are consistent if either the model for the treatment process is correctly specified or the failure time model is correctly specified, but not necessarily both. Moreover, we propose using inverse probability of censoring weighting to deal with dependent censoring. In contrast to artificial censoring, our weighting strategy does not introduce non-smoothness in estimation and ensures that the resampling methods can be used to make inference.

Keywords: Causality; Cox proportional hazards model; Observational study; Semiparametric analysis; Survival data.

1 Introduction

Confounding by indication is common in observational studies, which obscures the causal relationship of the treatment and outcome (Robins et al.; 1992). In longitudinal observational studies, this phenomenon becomes more pronounced due to time-varying confounding when there are time-dependent covariates that predict the subsequent treatment and outcome and also are affected by the past treatment history. In this case, standard regression methods whether or not adjusting for confounders are fallible (Robins, Hernan and Brumback; 2000; Daniel et al.; 2013).

*Department of Statistics, North Carolina State University, North Carolina 27695, U.S.A. Email: syang24@ncsu.edu

†Duke Clinical Research Institute, North Carolina 27705, U.S.A. Email: karen.pieper@dm.duke.edu

‡Department of Cardiology, AZ Klina, Augustijnlei 100, 2930 Brasschaat, Belgium. Email: frank.cools@klina.be

Self Consistent Estimation Of Continuous Failure Time Models With Discrete Data

Ross L. Prentice,Shanshan Zhao

Self Consistent Estimation Of Continuous Failure Time Models With Discrete Data:

Self-consistent Estimation of Continuous Failure Time Models with Discrete Data Roland Sturm,1989 **Australian National Bibliography** ,1978 **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 **Working Papers in Economics and Econometrics** Australian National University. Research School of Social Sciences. Department of Economics,1989 *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 Scientific and Technical Aerospace Reports ,1995 **List of Recent Periodical Articles** Joint Bank-Fund Library,1990-04 **Survival Analysis** John P. Klein,Melvin L. Moeschberger,2013-06-29 Applied statisticians in many fields must frequently analyze time to event data While the statistical tools presented in this book are applicable to data from medicine biology public health epidemiology engineering economics and demography the focus here is on applications of the techniques to biology and medicine The analysis of survival experiments is complicated by issues of censoring where an individual s life length is known to occur only in a certain period of time and by truncation where individuals enter the study only if they survive a sufficient length of time or individuals are included in the study only if the event has occurred by a given date The use of counting process methodology has allowed for substantial advances in the statistical theory to account for censoring and truncation in survival experiments This book makes these complex methods more accessible to applied researchers without an advanced mathematical background The authors present the essence of these techniques as well as classical techniques not based on counting processes and apply them to data Practical suggestions for implementing the various methods are set off in a series of Practical Notes at the end of each section Technical details of the derivation of the techniques are sketched in a series of Technical Notes This book will be useful for investigators who need to analyze censored or truncated life time data and as a textbook for a graduate course in survival analysis The prerequisite is a standard course in statistical methodology This book offers an excellent course in survival analysis for Prior Processes and Their Applications Eswar G. Phadia,2016-07-27 This book presents a systematic and comprehensive treatment of various prior processes that have been developed over the past four decades for dealing with Bayesian approach to solving selected nonparametric inference problems This revised edition has been substantially expanded to reflect the current interest in this area After an overview of different prior processes it examines the now pre eminent Dirichlet process and its variants including hierarchical processes then addresses new processes such as dependent Dirichlet local Dirichlet time varying and spatial processes all of which exploit the countable mixture representation of the Dirichlet process It subsequently discusses various neutral to right type processes including gamma and extended gamma beta and beta Stacy processes and then describes the Chinese Restaurant Indian Buffet and infinite gamma Poisson processes which prove to be very useful in areas such as machine learning information retrieval and featural modeling Tailfree and Polya tree and their extensions form a separate chapter while the last two chapters present the Bayesian solutions to certain estimation problems pertaining to the distribution function and its functional based on complete data as well as right censored data Because of the conjugacy property of some of these processes most solutions

are presented in closed form However the current interest in modeling and treating large scale and complex data also poses a problem the posterior distribution which is essential to Bayesian analysis is invariably not in a closed form making it necessary to resort to simulation Accordingly the book also introduces several computational procedures such as the Gibbs sampler Blocked Gibbs sampler and slice sampling highlighting essential steps of algorithms while discussing specific models In addition it features crucial steps of proofs and derivations explains the relationships between different processes and provides further clarifications to promote a deeper understanding Lastly it includes a comprehensive list of references equipping readers to explore further on their own **Current Index to Statistics, Applications, Methods and Theory** ,1998 The Current Index to Statistics CIS is a bibliographic index of publications in statistics probability and related fields

Mechanical Engineer's Reference Book Edward H. Smith,2013-09-24 Mechanical Engineer s Reference Book 12th Edition is a 19 chapter text that covers the basic principles of mechanical engineering The first chapters discuss the principles of mechanical engineering electrical and electronics microprocessors instrumentation and control The succeeding chapters deal with the applications of computers and computer integrated engineering systems the design standards and materials properties and selection Considerable chapters are devoted to other basic knowledge in mechanical engineering including solid mechanics tribology power units and transmission fuels and combustion and alternative energy sources The remaining chapters explore other engineering fields related to mechanical engineering including nuclear offshore and plant engineering These chapters also cover the topics of manufacturing methods engineering mathematics health and safety and units of measurements This book will be of great value to mechanical engineers **Applied Mechanics Reviews** ,1988

Longitudinal Structural Equation Modeling Jason T. Newsom,2015-06-19 This comprehensive resource reviews structural equation modeling SEM strategies for longitudinal data to help readers see which modeling options are available for which hypotheses The author demonstrates how SEM is related to other longitudinal data techniques throughout By exploring connections between models readers gain a better understanding of when to choose one analysis over another The book explores basic models to sophisticated ones including the statistical and conceptual underpinnings that are the building blocks of the analyses Accessibly written research examples from the behavioral and social sciences and results interpretations are provided throughout The emphasis is on concepts and practical guidance for applied research rather than on mathematical proofs New terms are highlighted and defined in the glossary Figures are included for every model along with detailed discussions of model specification and implementation issues Each chapter also includes examples of each model type comment sections that provide practical guidance model extensions and recommended readings Highlights include Covers the major SEM approaches to longitudinal analysis in one resource Explores connections between longitudinal SEM models to enhance integration Numerous examples that help readers match research questions to appropriate analyses and interpret results Reviews practical issues related to model specification and estimation to reinforce

connections Analyzes continuous and discrete binary and ordinal variables throughout for breadth not found in other sources Reviews key SEM concepts for those who need a refresher Ch 1 Emphasizes how to apply and interpret each model through realistic data examples Provides the book s data sets at www longitudinalsem com along with the Mplus and R lavaan syntax used to generate the results Introduces the LISREL notation system used throughout Appendix A The chapters can be read out of order but it is best to read chapters 1 4 first because most of the later chapters refer back to them The book opens with a review of latent variables and analysis of binary and ordinal variables Chapter 2 applies this information to assessing longitudinal measurement invariance SEM tests of dependent means and proportions over time points are explored in Chapter 3 and stability and change difference scores and lagged regression are covered in Chapter 4 The remaining chapters are each devoted to one major type of longitudinal SEM repeated measures analysis models full cross lagged panel models and simplex models modeling stability with state trait models linear and nonlinear growth curve models latent difference score models latent transition analysis time series analysis survival analysis and attrition Missing data is discussed in the context of many of the preceding models in Chapter 13 Ideal for graduate courses on longitudinal data analysis advanced SEM longitudinal SEM and or advanced data quantitative analysis taught in the behavioral social and health sciences this text also appeals to researchers in these fields Intended for those without an extensive math background prerequisites include familiarity with basic SEM Matrix algebra is avoided in all but a few places *Fault Detection, Supervision and Safety for Technical Processes 1991* B. Freyermuth,R. Isermann,2014-05-23 These Proceedings provide a general overview as well as detailed information on the developing field of reliability and safety of technical processes in automatically controlled processes The plenary papers present the state of the art and an overview in the areas of aircraft and nuclear power stations because these safety critical system domains possess the most highly developed fault management and supervision schemes Additional plenary papers covered the recent developments in analytical redundancy In total there are 95 papers presented in these Proceedings **Biometrics** ,1997 Handbook of Statistical Methods for Case-Control Studies Ørnulf Borgan,Norman Breslow,Nilanjan Chatterjee,Mitchell H. Gail,Alastair Scott,Chris J. Wild,2018-06-27 Handbook of Statistical Methods for Case Control Studies is written by leading researchers in the field It provides an in depth treatment of up to date and currently developing statistical methods for the design and analysis of case control studies as well as a review of classical principles and methods The handbook is designed to serve as a reference text for biostatisticians and quantitatively oriented epidemiologists who are working on the design and analysis of case control studies or on related statistical methods research Though not specifically intended as a textbook it may also be used as a backup reference text for graduate level courses Book Sections Classical designs and causal inference measurement error power and small sample inference Designs that use full cohort information Time to event data Genetic epidemiology About the Editors rnulf Borgan is Professor of Statistics University of Oslo His book with Andersen Gill and Keiding on counting

processes in survival analysis is a world classic Norman E Breslow was at the time of his death Professor Emeritus in Biostatistics University of Washington For decades his book with Nick Day has been the authoritative text on case control methodology Nilanjan Chatterjee is Bloomberg Distinguished Professor Johns Hopkins University He leads a broad research program in statistical methods for modern large scale biomedical studies Mitchell H Gail is a Senior Investigator at the National Cancer Institute His research includes modeling absolute risk of disease intervention trials and statistical methods for epidemiology Alastair Scott was at the time of his death Professor Emeritus of Statistics University of Auckland He was a major contributor to using survey sampling methods for analyzing case control data Chris J Wild is Professor of Statistics University of Auckland His research includes nonlinear regression and methods for fitting models to response selective data

Moving On? Richard Layte,2001 **Journal of the American Statistical Association** ,2002 **Statistical Theory and Method Abstracts** ,1997

This book delves into Self Consistent Estimation Of Continuous Failure Time Models With Discrete Data. Self Consistent Estimation Of Continuous Failure Time Models With Discrete Data is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Self Consistent Estimation Of Continuous Failure Time Models With Discrete Data, encompassing both the fundamentals and more intricate discussions.

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