

The Statistical Analysis Of Recurrent Events

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EventsStatistical Analysis of Panel Count DataAnalysis of Recurrent Event Processes with Dynamic ModelsRecurrent Events Data Analysis for Product Repairs, Disease Recurrences, and Other ApplicationsConvergence Analysis of Recurrent Neural NetworksAnalysis of Recurrent Event Data with Environmental CovariatesThe Econometric Analysis of Recurrent Events in Macroeconomics and FinanceIssues in Bioengineering and Bioinformatics: 2011 EditionPropensity Score Matching Methods for the Analysis of Recurrent EventsModeling and Bayesian Analysis of Recurrent Events and Longitudinal Data with Dependent TerminationThe Statistical Analysis of Multivariate Failure Time DataAn Analysis of the Learning-units in N Processes in AlgebraGeneral Theory of ValueRecurrent Events in Survival AnalysisMalware Analysis Using Artificial Intelligence and Deep LearningClinical Diagnosis, Case Examination and the Analysis of Symptoms: Analysis of symptomsDeep Learning Concepts in Operations ResearchDesign and Analysis of Clinical TrialsGunderson & Tepper's Clinical Radiation Oncology, E-Book Richard J. Cook Richard J. Cook Jianguo Sun Kunasekaran Nirmalkanna Wayne B. Nelson Zhang Yi Shahedul Ahsan Khan Don Harding Yasin Khadem Charvadeh Bichun Ouyang Ross L. Prentice Glenn Richard Pease Ralph Barton Perry Gabriela Burian Mark Stamp Alfred Martinet Biswadip Basu Mallik Shein-Chung Chow Joel E. Tepper

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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

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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

the analysis of past developments of processes through dynamic covariates is useful to understand the present and future of processes generating recurrent events in this study we consider two essential features of recurrent event processes through dynamic models these features are related to monotonic trends and clustering of recurrent events and frequently seen in medical studies we discuss the estimation of these features through dynamic models for event counts we also focus on the settings in which unexplained excess heterogeneity is present in the data furthermore we show that the violation of the strong assumption of

independent gap times may introduce substantial bias in the estimation of these features with models for event counts to address these issues we apply a copula based estimation method for the gap time models our approach does not rely on the strong independent gap time assumption and provides a valid estimation of model parameters we illustrate the methods developed in this study with data on repeated asthma attacks in children finally we propose some goodness of fit procedures as future research

survival data consist of a single event for each population unit namely end of life which is modeled with a life distribution in contrast many applications involve repeated events data where a unit may accumulate any number of events over time examples include the number and cost of repairs of products the number and treatment costs of recurrent disease episodes in patients and the number of childbirths to statisticians this applied book provides practitioners with basic nonparametric methods for such data particularly the plot of the estimate of the population mean cumulative function mcf which yields most of the information sought recurrent events data analysis for product repairs disease recurrences and other applications is the first book to present a simple unified theory that includes data on costs or other values of discrete events not just the number of events it surveys computer programs that calculate and plot the mcf estimate with confidence limits shows their output and explains how to interpret such plots many such calculations can be easily done with a pocket calculator or spreadsheet program also the book introduces basic poisson and cox regression models and parametric models including homogeneous and nonhomogeneous poisson processes and renewal processes

since the outstanding and pioneering research work of hopfield on recurrent neural networks rnns in the early 80s of the last century neural networks have rekindled strong interests in scientists and researchers recent years have recorded a remarkable advance in research and development work on rnns both in theoretical research as well as actual applications the field of rnns is now transforming into a complete and independent subject from theory to application from software to hardware new and exciting results are emerging day after day reflecting the keen interest rnns have instilled in everyone from researchers to practitioners rnns contain feedback connections among the neurons a phenomenon which has led rather naturally to rnns being regarded as dynamical systems rnns can be described by continuous time differential systems discrete time systems or functional differential systems and more generally in terms of non linear systems thus rnns have to their disposal a huge set of mathematical tools relating to dynamical system theory which has turned out to be very useful in enabling a rigorous analysis of rnns

the global financial crisis highlighted the impact on macroeconomic outcomes of recurrent events like business and financial cycles highs and lows in volatility and crashes and recessions at the most basic level such recurrent events can be summarized using binary

indicators showing if the event will occur or not these indicators are constructed either directly from data or indirectly through models because they are constructed they have different properties than those arising in microeconomics and how one is to use them depends a lot on the method of construction this book presents the econometric methods necessary for the successful modeling of recurrent events providing valuable insights for policymakers empirical researchers and theorists it explains why it is inherently difficult to forecast the onset of a recession in a way that provides useful guidance for active stabilization policy with the consequence that policymakers should place more emphasis on making the economy robust to recessions the book offers a range of econometric tools and techniques that researchers can use to measure recurrent events summarize their properties and evaluate how effectively economic and statistical models capture them these methods also offer insights for developing models that are consistent with observed financial and real cycles this book is an essential resource for students academics and researchers at central banks and institutions such as the international monetary fund

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observational studies are often used to investigate the effects of treatments on a specific outcome in many observational studies the event of interest can be of recurrent type which means that subjects may experience the event of interest more than one time during their follow up the lack of random allocation of treatments to subjects in observational studies may induce the selection bias leading to systematic differences in observed and unobserved baseline characteristics between treated and untreated subjects propensity score matching is a popular technique to address this issue it is based on the estimation of conditional probability of treatment assignment given the measured baseline characteristics the use of the propensity score in the analysis of observational studies with recurrent event outcomes has not been well developed in this study we consider three matching methods called propensity score matching covariate matching and history matching and compare the accuracy of them to estimate the treatment effects in recurrent event rates through monte carlo simulation studies we consider various scenarios under the settings of time fixed and

time dependent treatment indicators a synthetic data set is analyzed to illustrate the methods discussed in the thesis

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 censoring 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

this book is focused on the use of deep learning dl and artificial intelligence ai as tools to advance the fields of malware detection and analysis the individual chapters of the book deal with a wide variety of state of the art ai and dl techniques which are applied to a number of challenging malware related problems dl and ai based approaches to malware detection and analysis are largely data driven and hence minimal expert domain knowledge of malware is needed this book fills a gap between the emerging fields of dl ai and malware analysis it covers a broad range of modern and practical dl and ai techniques including frameworks and development tools enabling the audience to innovate with cutting edge research advancements in a multitude of malware and closely related use cases

the model based approach for carrying out classification and identification of tasks has led to the pervading progress of the machine learning paradigm in diversified fields of technology deep learning concepts in operations research looks at the concepts that are the foundation of this model based approach apart from the classification process the machine learning ml model has become effective enough to predict future trends of any sort of phenomena such fields as object classification speech recognition and face detection have sought extensive application of artificial intelligence ai and ml as well among a variety of topics the book examines an overview of applications and computing devices deep learning impacts in the field of ai deep learning as state of the art approach to ai exploring deep learning architecture for cutting edge ai solutions operations research is the branch of mathematics for performing many operational tasks in other allied domains and the book explains how the implementation of automated strategies in optimization and parameter selection can be carried out by ai and ml operations research has many beneficial aspects for decision making discussing how a proper decision depends on several factors the book examines how ai and ml can be used to model equations and define constraints to solve problems and discover proper and valid solutions more easily it also looks at how automation plays a significant role in minimizing human labor and thereby minimizes overall time and cost

presentation of principles and methodologies for various clinical trials and a well balanced summary of current regulatory requirements emphasizes real life examples and illustrations from clinical case studies as well as numerous references

a comprehensive multidisciplinary resource for the entire radiation oncology team gunderson tepper s clinical radiation oncology 5th edition thoroughly covers all aspects of this complex and dynamic field concise templated chapters cover the basic biology of oncologic disease processes as well as updated treatment algorithms the latest clinical guidelines and state of the art techniques and modalities more than 1 000 images detailed anatomy drawings radiographic images and more provide outstanding visual support for every area of the text divides content into three distinct sections for quick access to information scientific foundations techniques and modalities and disease sites disease site chapters include overviews summarizing the most important issues and concluding discussions on controversies and problems features new and expanded content on molecular and cellular biology and its relevance in individualized treatment approaches stereotactic radiation therapy radiosurgery proton therapy biologic therapy precision radiation therapy targeted radiation dosing guidelines for better quality of life and improved patient outcomes and more includes new chapters on radiation physics particle therapy interventional radiology radiation therapy in the elderly palliative care quality and safety and immunotherapy with radiotherapy provides guidance on single modality and combined modality approaches as well as outcome data including disease control survival and treatment tolerance includes access to videos on intraoperative irradiation prostate brachytherapy penile brachytherapy and ocular melanoma

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