Empirical Likelihood Method in Survival Analysis (Chapman Hall/CRC Biostatistics Series)

Mai Zhou
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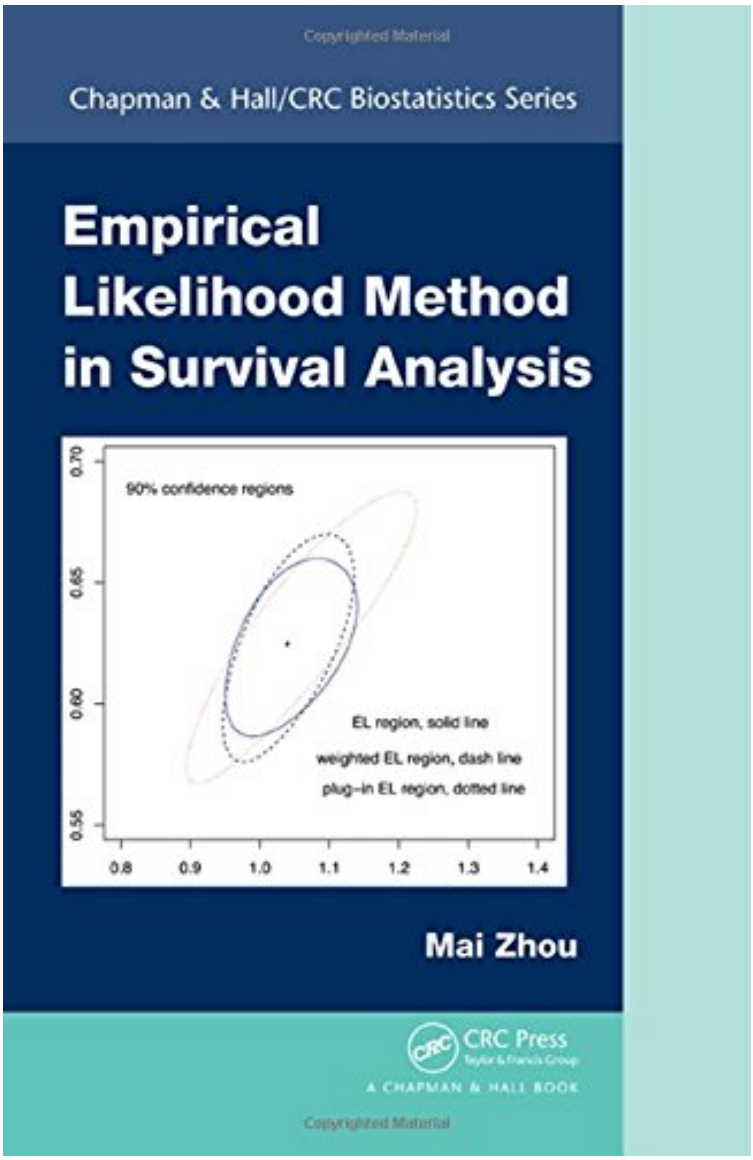

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Mai Zhou : Empirical Likelihood Method in Survival Analysis (Chapman Hall/CRC Biostatistics Series) before purchasing it in order to gage whether or not it would be worth my time, and all praised Empirical Likelihood Method

in Survival Analysis (Chapman Hall/CRC Biostatistics Series):

Add the Empirical Likelihood to Your Nonparametric Toolbox Empirical Likelihood Method in Survival Analysis explains how to use the empirical likelihood method for right censored survival data. The author uses R for calculating empirical likelihood and includes many worked out examples with the associated R code. The datasets and code are available for download on his website and CRAN. The book focuses on all the standard survival analysis topics treated with empirical likelihood, including hazard functions, cumulative distribution functions, analysis of the Cox model, and computation of empirical likelihood for censored data. It also covers semi-parametric accelerated failure time models, the optimality of confidence regions derived from empirical likelihood or plug-in empirical likelihood ratio tests, and several empirical likelihood confidence band results. While survival analysis is a classic area of statistical study, the empirical likelihood methodology has only recently been developed. Until now, just one book was available on empirical likelihood and most statistical software did not include empirical likelihood procedures. Addressing this shortfall, this book provides the functions to calculate the empirical likelihood ratio in survival analysis as well as functions related to the empirical likelihood analysis of the Cox regression model and other hazard regression models.

About the AuthorMai Zhou is a professor in the Department of Statistics at the University of Kentucky. His research interests include large sample theory and survival analysis. He earned a PhD from Columbia University.