

Nonparametric estimation for dependent interval-censored failure time data

Jianguo Sun

Department of Statistics
University of Missouri, Columbia, Missouri 65211, USA

Abstract

Nonparametric estimation of a survival function is one of the most commonly asked questions in the analysis of failure time data and for this, a number of procedures have been developed under various types of censoring structures (Kalbfleisch and Prentice, 2002). In particular, several algorithms are available for interval-censored failure time data with independent censoring mechanism (Sun, 2006; Turnbull, 1976). In this talk, we discuss the interval-censored data where the censoring mechanism may be related to the failure time of interest and some procedures are investigated.