

Survival Analysis

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Abstract

Survival analysis has been used to investigate things like how long people stay unemployed, how long a cancer patient lives, how long it takes before a lightbulb breaks, etc. What these examples have in common is that they all investigate how long it takes before a certain event (finding a job, dying, breaking of a lightbulb) happens. In this talk we will discuss the nature of survival data, the basic quantities and models for survival data, and the commonly used techniques in analyzing survival data including the non-parametric Kaplan-Meier estimates of the survival curves and the log rank test to compare two survival curves.