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Title: Aspects of Modeling and Application of Survival-type Data

Abstract:

Survival analysis has a wide range of important applications in many different areas. Time to event/survival data can arise naturally from studies on, machines' time to break down (also known as reliability) to agricultural experiments on how some environmental conditions affect flowering, to medical cohort studies following-up cancer patients' survival and their reaction to treatments, etc. The main features of a survival trait are that it is the time until an event occurs, and frequently some of the observations are censored, and essential consideration in survival analysis methodology.

This talk presents three scenarios where survival data arise in industrial, agricultural and medical applications, the unique difficulties that each type of data brings to bear on data analysis and will discuss methods for modelling them.