

From Semi- to Non-Parametric Inference in General Time Scale Models

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Abstract

Any regression model in survival analysis implies a transformation from age measured in “chronological time” to age measured in some more complex scale that is a function of time and the covariate history. In this talk, we first review the notion of “ideal time scale” and then consider a class of regression models whose ideal time scale is of a particularly simple form, namely the class of collapsible models. We then consider inference procedures for this class of models. More specifically, we look at semi-parametric inference methods for these models and at potential avenues for non-parametric inference.