

Einladung zum Biometrischen Kolloquium

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INSTRUMENTAL VARIABLE ESTIMATION IN SEMI- PARAMETRIC ADDITIVE HAZARD MODELS

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Abstract:

Instrumental variable methods allow unbiased estimation in the presence of unmeasured confounders when an appropriate instrumental variable is available. They have recently been adapted to additive hazard models for censored survival data. We present new results concerning estimation of time-independent and time-dependent covariate effects using instrumental variable methods in a semi-parametric additive hazard model. Estimation of the conditional survival function given observed covariates is discussed and a resampling scheme is proposed to obtain simultaneous confidence bands. The new methods are compared to existing ones in a simulation study.