



Convex Treatment Response and Treatment Selection

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This paper analyzes the identifying power of weak convexity assumptions in treatment effect models with endogenous selection. The counterfactual distributions are constrained either in terms of the response function, or conditional on the realized treatment, and sharp bounds on the potential outcome distributions are derived. The methods are applied to bound the effect of education on smoking.

Keywords: Nonparametric Bounds; Causality; Endogeneity; Instrumental Variables.

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