Near-consistent robust estimations of moments for unimodal distributions

Tuban Lee

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Descriptive statistics for parametric models currently rely heavily on the accuracy of distributional assumptions. Here, leveraging the structures of parametric distributions and their central moment kernel distributions, a class of estimators, consistent simultanously for both a semiparametric distribution and a distinct parametric distribution, is proposed to achieve robusness to both gross errors and departures from parametric assumptions.

Theorem .1.

Proof. $\square$