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
- 3 structures of parametric distributions and their central moment kernel
- 4 distributions, a class of estimators, consistent simultanously for both
- a semiparametric distribution and a distinct parametric distribution, is
- 6 proposed. These estimators are robust to both gross errors and depar-
- tures from parametric assumptions, making them ideal for estimating
- 8 the mean and central moments of common unimodal distributions.
- 9 This article also illuminates the understanding of the common nature
- of probability distributions and the measures of them.

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Theorem	

Proof.