Near-consistent robust estimations of moments for unimodal distributions

Tuban Lee

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A. Congruent distribution. In the realm of nonparametric statistics, the relative differences, or orders, of robust estimators are of primary importance. Based on this principle, when there is a shift in the parameters of the underlying distribution, all nonparametric estimates should asymptotically change in the same direction, provided that they are estimating the same attribute of the distribution.

Data Availability. Data for Table **??** are given in SI Dataset S1. All codes are attached.