

Finite Sample Optimality of Extremes and Mid-Range

Chris A. J. Klaassen

Abstract: Consider estimation of the location of the center of a uniform distribution by a translation equivariant estimator. It is shown that for a broad class of loss functions and for each sample size the sample mid-range is an optimal estimator. Similarly, the sample minimum is optimal in estimating the start of a nonincreasing density.

Keywords:

AMS Subject Classification: