

Some Log-Type Classes of Estimators for Variance Estimation Using Auxiliary Information

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ABSTRACT

In this paper, we proposed some new classes of log-type estimators for estimating the population mean of the study variable using the auxiliary information. It has been shown that these classes of log-type estimators have lesser mean square error or minimum percentage relative efficiency as compared to some of the commonly used estimators available in the literature. We also include a numerical study as an illustration.