

Lecture 10.3 (02:50-03:05)

Different estimators of mean in finite populations

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In this talk, I shall discuss several estimators of finite population mean. I shall consider situations where data are finite as well as infinite-dimensional in nature. The performance of these estimators will be compared under different sampling designs based on their asymptotic distributions. One of the major findings is that although the use of the auxiliary information in the estimation stage usually improves the performance of different estimators, the use of the auxiliary information in the sampling design stage often has adverse effects on the performance of these estimators.