

## MINIMUM VARIANCE STRATIFICATION FOR COMPROMISE ALLOCATION

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- **ABSTRACT:** *In this paper we have considered the problem of optimum stratification for two sensitive quantitative variables when the data from different strata have been collected by scrambled response technique and an auxiliary variable has been used as a stratification variable. In this paper we have obtained the limiting expression for the trace of generalized variance covariance matrix, expression for number of strata and expression for approximate sample size  $[n_h]$ . The paper concludes with a numerical illustration.*
- **KEYWORDS:** *Sensitive variable; scrambled response; optimum stratification; AOSB (Approximately Optimum Strata Boundaries).*

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