Some Multi Convex Programming Problems Arising in Multivariate Sampling

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Abstract

The problems of multivariate sampling arising in the areas of stratified random sampling, two stage sampling, double sampling and response errors formulate as multiobjective convex programming problems with convex objective functions and a single linear constraint with some upper and lower bounds.

References

- Rahim M. A., Use of distance function to optimize sample allocation in multivariate
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- Optimum Allocation in Two-stage and Stratified Two-stage Sampling for Multivariate Surveys by M. G. M. Khan, Munish A. Chand, and Nesar Ahmad School of Computing, Information and Mathematical Sciences Faculty of Science and Technology, The University of the South Pacific Suva, Fiji, 2006.

**Index Terms**

Computer Science

Applied Mathematics

**Keywords**

Multivariate Sampling  Stratified sampling  Multiobjective convex programming

Optimization

Linear Programming