Estimation of Superpopulation Models for Surveys Under General Sampling Approaches.

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Abstract

This paper examines bias corrections for various parametric estimators, such as maximum likelihood estimators and Bayesian methods, when a sample is taken from a larger finite population using probabilistic sampling. It discusses the asymptotic properties of the estimators and covers a wide range of applications (such as nonresponses, and possible nonlinear regression models). Finally, we explore general corrections for non-probabilistic sampling methods, and simulations.

Track: Methods, Modelling & Marketing Analytics