

Fractional imputation for handling missing data in survey sampling

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Fractional imputation, developed by Kim and Fuller (2004), Fuller and Kim (2005), and Kim (2011), is a general tool for handling incomplete data in survey sampling. In this talk, we review the basic idea of the fractional imputation and introduce a general version of fractional hot deck imputation which is based on a finite mixture model approximation. We also introduce a new R package, FHDI, which handles multivariate missing data in complex sampling.