

Balanced k -nearest neighbor imputation

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In order to overcome the problem of item nonresponse, random imputations are often used because they tend to preserve the distribution of the imputed variable. Among the methods of random imputation, the random hot-deck has the interesting property that the imputed values are observed values. We present a new random method of hot-deck imputation which enables us to select the imputed values such that some balancing equations are satisfied and such that the donors are selected in a neighborhood of the recipients.

Key Words: Missing data, sampling, nonresponse