

Accuracy Assessment of Near-Neighbor Imputation Using Only Reference Set

Albert R. Stage
Rocky Mountain Research Station
Moscow, Idaho

Abstract: Many conventional statistics and statistical tests for accuracy assessment of imputation are inappropriately applied to near-neighbor methods using only the reference set. Deficiencies in the use of correlation coefficients, chi-square tests of independence and Kappa are demonstrated. In their stead, several new statistics based on partitioning error sources of continuous response variables are presented. Using these results as a template, more appropriate statistics for discrete variables are derived or suggested.