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A novel ensemble method for k-nearest neighbor

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Highlights:

- We proposed a weighted heterogeneous distance metric (WHDM).
- We presented WHDM and Dempster-Shafer theory based k NN algorithm.
- We proposed a multimodal perturbation method (RRSB) for k NN ensemble.
- The effectiveness of our algorithms was shown on multiple UCI data sets and a KDD data set.

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