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Theoretical properties of distance distributions and novel metrics for nearest-neighbor feature selection

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**Response to Reviewers**

Dear Editor Dr. Alan D Hutson,

We sincerely thank you for providing us the chance to submit a revision of our original manuscript. We are also grateful for the concise summary of the general condition of our manuscript and primary concerns or the reviewers. In addition, we are tremendously appreciative of the helpful comments and suggestions provided by the reviewers. This letter contains our enumerated responses to each comment of the reviewers, as well as the corresponding changes to our manuscript.

We summarize editions to our original manuscript as follows:

* In reference to comments concerning application of our results, we have added a simulation study to show how we can improve performance in classification.
* We have added a paragraph to the introduction to explain the novelty of our main results, which summarizes the major contributions of our work.
* The abstract has been edited to provide a better summary of our primary objective and results.
* The introduction has been modified to include more recent and precise references.
* We have added a more detailed literature review to the introduction to provide a summary of the contributions and drawbacks of recent works, and how our study relates to and improves upon past works.