

Review of: "A Simple Preprocessing Method Enhances Machine Learning Application to EEG Data for Differential Diagnosis of Autism"

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Potential competing interests: No potential competing interests to declare.

The authors of the paper have presented a novel pre-processing approach to EEG data to detect topological EEG features. The topic of the current work excites me; however, there are some major technical explanations that I found required to address during the review of the paper. My comments are as below.

1. The literature review portion in the Introduction section needs to be modified, highlighting the novelty of the presented work.
2. The kNN algorithm used in this work needs to be compared with other sufficient methods such as SVM, Random Forest, etc.
3. Why was the Manhattan distance considered in the kNN algorithm in place of the Euclidean distance?
4. For such a healthcare-related work, cross-subject validation is a must. Did the authors incorporate this validation in their study?
5. Efficacies of the presented approaches only have marginal improvements. Please explain this in the context of practical implementation scenarios?
6. Significant grammatical errors are present throughout the entire paper. Please revise the paper with a native-speaking expert.