

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

Yipeng Du

Potential competing interests: No potential competing interests to declare.

In this paper, the authors used the minimum spanning tree (MST) to extract the features of raw EEG signals in the preprocessing procedure and adopted the KNN for classification. The results showed that the proposed method can classify ASD subjects from NPD subjects.

Specific comments and suggestions:

- Brain functional connectivity features are widely used in EEG analysis. The authors should discuss the difference between the proposed methods and brain functional connectivity. Furthermore, it is suggested to add the baseline models for comparison, like brain functional connectivity features + KNN model.
- 2. In the Training-testing protocol section, what is the meaning of ANN?
- 3. For Table 1, the accuracy of KNN was calculated based on the average of two runs. It can be seen that the performance of KNN was not stable. The authors should explain this phenomenon.

Qeios ID: HTN96Y · https://doi.org/10.32388/HTN96Y