

# Review of: "Deep Learning Modeling for Prediction of Cognitive Task Related Features from Resting-state fMRI Data"

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Potential competing interests: No potential competing interests to declare.

**The authors proposed a modified connectivity-based graph convolutional network (cGCN) and tested the performance of the model through an data example. The structure looks fine, but the writing can be improved. I have the following comments for the authors.**

In the first paragraph in the introduction, the authors may need to reorganize the structure and provide reference for the assertions. The connection between the gcn and and brain connectivity is unclear with current statement.

In section 2.2, the title is 'MRI data'. However, the real data example is an application on the fMRI scan. The authors may want to clarify or unify the term. Also, it'll be helpful if the authors can specify the image type (i.e. T1, T2 image).

The authors may add a brief introduction for the image data, including the study purpose. It'll be better if the authors can provide the reference of the atlas.

When reporting the real data example results, it may not be necessary to list out that many regions. Also to interpret the findings, the author may provide some reference with the similar setting and study findings to support their claim.

The authors may consider adding the competing methods result and compare the performance.