Reviewer’s report

Title: Temporally constrained ICA with Threshold and its application to fMRI data

Version: 1 Date: 11 Oct 2018

Reviewer: Mark Chiew

Reviewer's report:

In this revision, the authors have addressed most of the comments from the original submission. However, Fig. 7 seems to be missing from the submission, so review of the revision cannot be completed. I also have additional minor comments:

L268 - What exactly is the two-step PCA? This is never explained.

Figure 2C - What is the unit of time? seconds?

The ordering of Sections 4.1.3 and 4.1.2 should be swapped

Fig 3A - why not just plot Mean ROC Area (IC1) vs. CC(with IC1) instead of Mean ROC Area (IC1) vs. CC(with IC2)?

L229 - What time course was used in the GLM? The CC=0.85 from TRef time-course? Because L224 implies only TCICA-Thres and TCICA used the reference.

In the simulated multi-subject analysis (Fig 5), why did you choose to label IC1 corresponding to ROI2, and IC2 corresponding to ROI1?

Fig. 6F - It looks like IC2 for FastICA only picks up the supplementary motor area. This should be more explicitly mentioned in the results.

L228 - score —> scores

L233 - "the temporal concatenation" —> "temporal concatenation"

Are the methods appropriate and well described?
If not, please specify what is required in your comments to the authors.

Yes

Does the work include the necessary controls?
If not, please specify which controls are required in your comments to the authors.

Yes
Are the conclusions drawn adequately supported by the data shown?
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Yes

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