Nonlinear Processes
in Geophysics
Discussions

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**Interactive
comment**

# *Interactive comment on* "A denoising stacked autoencoders for transient electromagnetic signal denoising" *by* Fanqiang Lin et al.

## Anonymous Referee #2

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Authors presented a deep learning method to suppress noise in the transient electromagnetic method. It's an interesting and well-written paper. Please find below my comments.

1. How exactly you are planning to train the network on realistic geophysical problems. 2. Is this method can be generalized in the sense that the training on one data can be used on different datasets? 3. Any comments on using supervised learning since that seems work better than the unsupervised learning? 4. If noise is not random as shown in the examples, will this method still work? 5. What the runtime cost of the proposed method compared to other denoising methods?

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Interactive comment on Nonlin. Processes Geophys. Discuss., https://doi.org/10.5194/npg-

2018-39, 2018.