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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 #1

Received and published: 19 November 2018

This paper is about the deep learning of geophysics, especially the application of stacked denoising auto-encoder in transient electromagnetic method. This is an innovative application point with innovation. After I read it, the following questions should be addressed carefullyijž 1ãĂĄThe sample selection for learning is not clearly described in the paper. Please add the sample selection instructions, and specify the source of the samples and the selection principles. 2ãĂĄPlease describe the parameters of the experimental platform, the hyper-parameter indexes in the model, and the code of the main model module. 3ãĂĄPlease add more description of the specific parameters and experimental details of kalman filter and wavelet transform. 4ãĂĄThe related work section over introduces the encoder related literature. Please elaborate the literature of transient electromagnetic signal noise reduction and signal filtering. 5ãĂĄThe loss

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Discussion paper



in figure 1 is calculated as two regularized losses. What does that mean? It should be explain detail. 6ãĂĄPlease explain the relationship between figure 5 and the corresponding explanatory text. And whether the coordinates in Figure 5 is correctiij§

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