Response to Reviewer 3 Comments

Point 1: I think that the method proposed by authors can be applied to fault diagnosis of bearings. In the introduction authors do not mention about methods based on measurements of anti-torque of bearings, which was for example described in work:


Authors propose to apply wavelet pocket decomposition to investigate rotary elements. Some works refer to similar problem, for example in work:


I think it would be interesting if authors could refer to this work

Response 1: According to reviewer's comment, the references mentioned above have been added in revised manuscript.

Point 2: As it is know wavelet transform is applied with the use of so-called mother wavelet. Authors apply Daubechies -1 (which is in fact Haar wavelet). Have authors tried to apply some other types of mother wavelets?

Response 2: We have tried many kinds of wavelets, from db1 to db10. The experimental results show that the type of mother wavelet has little effect on the accuracy, noise resistance and migration of the network structure proposed in this paper. We chose to use db1 to reduce the computational complexity of the network because db1 does not increase the length of subband coefficients.