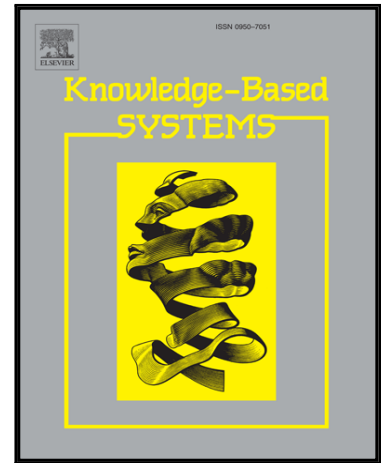


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An enhancement deep feature fusion method for rotating machinery fault diagnosis

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Highlights:

1. A new deep learning method is proposed to automatically learn the useful fault features from the raw vibration signals.
2. A new deep auto-encoder model is constructed with denoising auto-encoder and contractive auto-encoder for the enhancement of feature learning ability.
3. To improve the diagnosis efficiency, locality preserving projection is adopted to fuse the deep features to extract the most representative information.

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