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Intelligent Fault Diagnosis of Rolling Bearing Using Deep Wavelet Auto-encoder with Extreme Learning Machine

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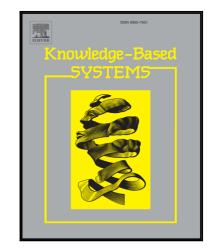
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Highlights

- Wavelet auto-encoder is designed with wavelet function to capture the signal characteristics.
- A deep wavelet auto-encoder is constructed with multiple Wavelet auto-encoders to enhance the unsupervised feature learning ability
- The proposed method effectively diagnoses the different fault types, different fault severities and different fault orientations of rolling bearing.

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