

## Accepted Manuscript

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

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PII: S0950-7051(17)30493-8  
DOI: [10.1016/j.knosys.2017.10.024](https://doi.org/10.1016/j.knosys.2017.10.024)  
Reference: KNOSYS 4086



To appear in: *Knowledge-Based Systems*

Received date: 22 May 2017  
Revised date: 20 August 2017  
Accepted date: 20 October 2017

Please cite this article as: Shao Haidong , Jiang Hongkai , Li Xingqiu , Wu Shuaipeng , Intelligent Fault Diagnosis of Rolling Bearing Using Deep Wavelet Auto-encoder with Extreme Learning Machine, *Knowledge-Based Systems* (2017), doi: [10.1016/j.knosys.2017.10.024](https://doi.org/10.1016/j.knosys.2017.10.024)

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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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