

## Accepted Manuscript

Bearing faults diagnosis using fuzzy expert system relying on an improved range overlaps and similarity method

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PII: S0957-4174(18)30265-3  
DOI: [10.1016/j.eswa.2018.04.025](https://doi.org/10.1016/j.eswa.2018.04.025)  
Reference: ESWA 11939



To appear in: *Expert Systems With Applications*

Received date: 26 September 2017  
Revised date: 20 April 2018  
Accepted date: 22 April 2018

Please cite this article as: Toufik Berredjem , Mohamed Benidir , Bearing faults diagnosis using fuzzy expert system relying on an improved range overlaps and similarity method, *Expert Systems With Applications* (2018), doi: [10.1016/j.eswa.2018.04.025](https://doi.org/10.1016/j.eswa.2018.04.025)

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## Highlights

- We used wavelet packet coefficients to extract features from faulty bearings.
- We proposed an Improved Range Overlap's method for feature selection.
- The reduced feature set is well-suited to build the fuzzy expert system.
- Findings on localized and distributed bearing faults.

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