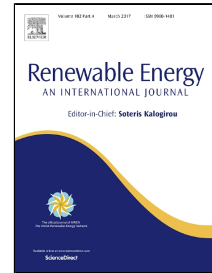


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Multi-Dimensional Variational Mode Decomposition for Bearing-Crack Detection in Wind Turbines with Large Driving-Speed Variations

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Research Highlights

- We develop multi-dimensional variational decomposition for bearing-crack detection.
- This method tackles the challenge of large driving-speed variations in wind turbines.
- It incorporates variational mode decomposition into convolutive blind-source separation.
- Bearings with cracks in the outer race were used in an experiment to validate the method.

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