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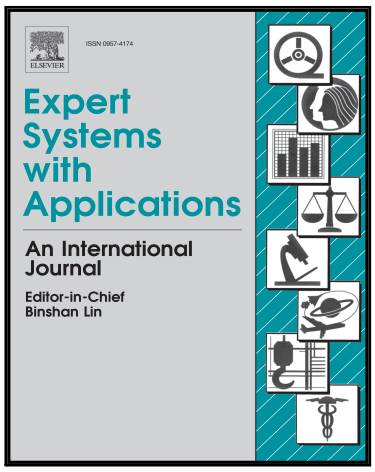

A new subset based deep feature learning method for intelligent fault diagnosis of bearing

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Highlights

- A subset approach for bearing vibration signal is proposed.
- A subset based deep auto-encoder feature learning model is proposed.
- A self-adaptive fine-tuning operation is developed to enhance feature learning.
- Particle swarm algorithm is used to optimize the key parameters.
- Effectiveness of the model is demonstrated in 3 bearing case studies.

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