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An intelligent diagnosis scheme based on generative adversarial learning deep neural networks and its application to planetary gearbox fault pattern recognition

Zirui Wang , Jun Wang , Youren Wang

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Highlights

- A new diagnostic model named SDAE-GAN is proposed.
- The model combines Generative Adversarial Networks and Stacked Denoising Autoencoders.
- The performance of the model is investigated in the planetary gearbox experiment platform.
- Results suggest that SDAE-GAN is better than SDAE and other common diagnostic models in classification precision.

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