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Improving one class support vector machine novelty detection scheme using nonlinear features

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Highlights

- A systematic preprocessing is proposed to improve oc-svm novelty detection scheme.
- The effect of *load*, *fault type* and *fault intensity* factors, are compared.
- Only the nonlinear features can classify data corresponding to nonlinear systems.
- The proposed method leads to a high efficiency oc-svm novelty detection scheme.

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