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A scalable fuzzy support vector machine for fault detection in transportation systems

Jie Liu , Enrico Zio

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Highlights

- Fuzzy support vector machine is used for fault detection in high speed train.
- A new KNN-based method is proposed for calculating fuzzy membership values.
- The new method is scalable for imbalanced big data.
- The computation burden is largely reduced in the experiment on a real dataset.

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