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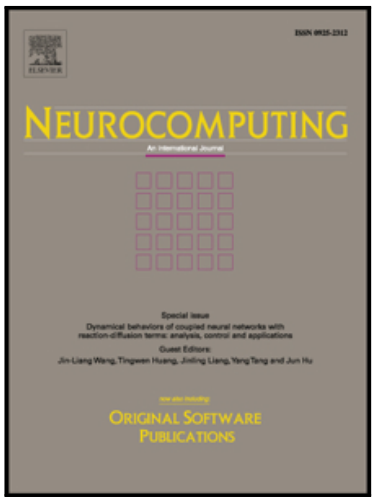

Evidential KNN-Based Condition Monitoring and Early Warning Method with Applications in Power Plant

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Highlights

- By employing the distance reject option in the EKNN rule, only normal operating data is needed to construct the condition monitoring and early warning model (CMEW-EKNN).
- An adaptive discounting factor is suggested to tune EKNN to make the fault early warning boundary of CMEW-EKNN adaptive to local distribution characteristic of the training samples, so as to improve the performance of the method.
- Based on the framework of theory of belief functions, the uncertainty of the data as well as the equipment's operating condition can be described well.

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