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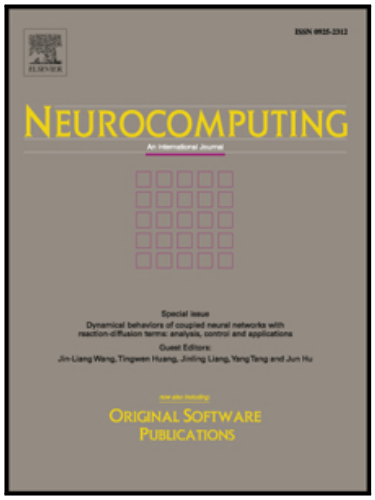

Implementing Multivariate Statistics-Based Process Monitoring: A Comparison of Basic Data Modeling Approaches

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Highlights

- Commonly used data modelling methods, including PCA, PLS and CCA, are investigated.
- Their interconnections and differences of each other to address the multivariate statistics-based process monitoring (MSPM) problem are compared.
- Their different dynamic extensions are reviewed and the performance when used in MSPM field is evaluated.
- Continuous stirred tank reactor simulation and hot strip mill process application are carried out to show the theoretical results.

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