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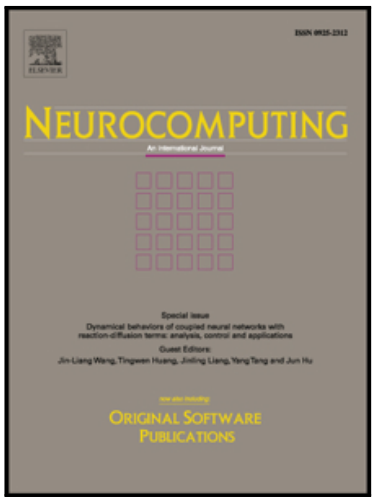

Variational Mode Decomposition and Weighted Online Sequential Extreme Learning Machine for Power Quality Event Patterns Recognition

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Highlights

- Variational Mode decomposition (VMD) is used for Power Quality signal processing.
- New Power Quality indices are derived from VMD for PQ event recognition.
- Weighted On-line sequential ELM (WOSELM) is used for classification of PQ patterns.
- Comparison with Empirical Mode decomposition based WOSELM is presented.
- Hardware implementation of the new PQ monitor is used to validate itsperformance.

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