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Plant-Wide Oscillation Detection using Multivariate Empirical Mode Decomposition

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Highlights

- A novel method for plant wide oscillation detection is proposed.
- Mode alignment property of multivariate empirical mode decomposition and a grouping algorithm is employed.
- The proposed method is used to group plant variables oscillating with similar frequency.
- The proposed method can work with non-stationary plant data.
- The approach doesn't require a priori assumption about the underlying process dynamics.

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