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Automatic Data-Driven Spectral Analysis Based on a Multi-Estimator Approach

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**Highlights**

- A spectral analysis strategy is proposed, automatically picking out and estimating the relevant spectral structures of observed signals.
- The signals under consideration may have non-white Gaussian additive noise.
- Key idea 1: a multi-method approach which uses not only one spectral analysis method but combines the results of different methods.
- For each selected spectral analysis method, a two-step procedure is applied: detection in the frequency domain and classification in an original feature space.
- Key idea 2: a data-driven approach where all parameters are automatically set up according to the input data without a priori knowledge.
- Fully adapted to the preventive maintenance of complex systems.

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