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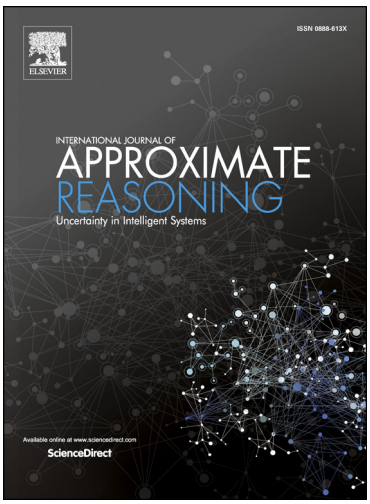

Short-term load forecasting method based on fuzzy time series, seasonality and long memory process

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Highlights

- In this study to better boost the accuracy of forecasts inside seasonal time series that follow a long memory process, a combination of Fuzzy Time Series (FTS) with SARFIMA is proposed.
- High-order Fuzzy Time Series (FTS) is adopted to be revised for developing the proposed method.
- Particle Swarm Optimization is applied for parameters estimation.
- Some datasets of half-hourly load data from England and France for the year 2005 and four data sets of hourly load data from Malaysia for the year 2007 and six seasonal long memory datasets from publicly available sources are employed and the findings are compared with well-known forecasting models.

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