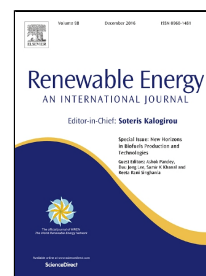


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A Multi-Stage Smart Energy Management System Under Multiple Uncertainties A Data Mining Approach

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Highlights:

1-Introducing a new multi-stage SEMS architecture for optimal energy management in MGs considering various resources of uncertainties.

2-Performing various tasks such as data acquisition/mining/refinement, pattern recognition, learning parameters and offline/online decision making.

3-Some data mining algorithms have been applied to reduce the huge amount of raw data, recognize patterns for analysis and learn the given parameters.

4-For handling of uncertainties, using a stochastic scheduling approach, which includes the mean and variance of energy cost, is applied in the optimization process.

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