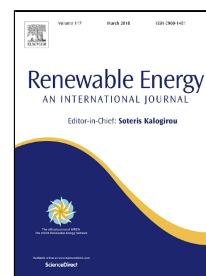


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Assessment of SVM, Empirical and ANN based solar radiation prediction models with most influencing input parameters

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Highlights

- SVM, Empirical and ANN models are assessed for prediction of solar radiation.
- Four new empirical models are introduced and validated with experimental data.
- Prediction accuracy is improved with WEKA identified most influencing input parameters.
- SVM is simple and accurate, ANN is complex and empirical models are less accurate.
- Solar energy potential is assessed for Tamil Nadu, India using the simple SVM model.

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