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Title: Investigating the Impact of Feature Selection on the Prediction of Solar Radiation in Different Locations in Saudi Arabia

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### Highlights

- 1- A study of different feature selection methods is carried out to predict the daily amounts of solar radiation in different locations in Saudi Arabia.
- 2- Four feature selection algorithms are applied: ReliefF algorithm, Monte Carlo uninformative variable elimination algorithm (MCUVE), random-frog algorithm, and Laplacian score algorithm (LS).
- 3- A computational intelligence model of a multi-layer neural network is used as the predictor.
- 4- The results showed the importance of using feature selection methods in order to obtain a reliable prediction of the amount of solar radiation compared with using all the features available.

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