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A fuzzy regression with support vector machine approach to the estimation of horizontal global solar radiation

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Highlights

- A fuzzy regression functions with support vector machines approach is proposed.
- The approach is robust against outlier observations and over-fitting problem.
- Estimation accuracy of the model is superior to several existent alternatives.
- A new solar radiation estimation model is proposed for the region of Turkey.
- The model is useful under complex terrestrial and climatic conditions.

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