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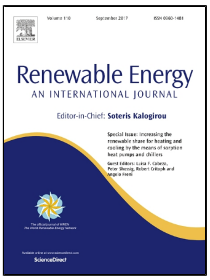

A numerical model based on prior distribution fuzzy inference and neural networks

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(1) This study extends fuzzy control theory to simulate prior distribution fuzzy inference.
(2) This paper developed the fuzzy control theory for fuzzy partitioning and weight adjustment.
(3) Our proposed model outperforms traditional forecasting models both in forecasting accuracy and stability.
(4) More effective metrics are developed to evaluate the forecasting performance of proposed methods.

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