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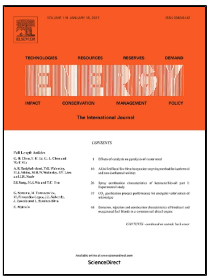

Predictive Model of Yaw Error in a Wind Turbine

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Highlights

- ✓ A new model for prediction of wind direction needed for yaw control in a wind turbine is developed.
- ✓ A new approach for transformation of wind measurements is proposed to produce feasible predicted values.
- ✓ Comparative analysis of different data-mining algorithms is performed.
- ✓ The prediction model developed in the paper is applied to yaw control of a wind turbine.
- ✓ Characteristics of wind directions at different seasons are analyzed.

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