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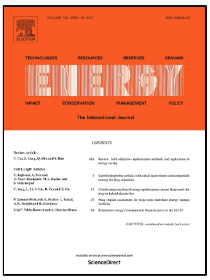

Comparison of various regression models for predicting compressor and turbine performance parameters

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- Regression models are constructed for prediction of the efficiency and mass flow rate
- Models are compared in terms of the calculated coefficients' *p* and AIC values
- Linear and the most popular nonlinear regression techniques are investigated
- The constructed models can provide a mathematical basis for engine design studies
- The models can be adapted to various engine types easily

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