Confidence interval of wind power generation hours

In this study we have designed a hybrid prediction framework for both deterministic and interval prediction. Initially, the original wind power data undergo cleaning using the quartile method and the fuzzy C ...

Based on the respective values and with respect to the non gaussian nature of the distribution of the forecast errors, a procedure to determine confidence intervals for the expected actual...

This paper proposes a novel hybrid intelligent algorithm approach to directly formulate optimal prediction intervals of wind power generation based on extreme learning machine and particle swarm ...

An exhaustive analysis was performed using Spanish wind power generation data by testing the accuracy of the point-aggregated forecasts and the reliability of the prediction intervals and by checking the ...

In this paper, a general method is proposed to determine the optimal interval forecast of wind power. Firstly, the distribution of the point forecast error is found by using the non-parametric Parzen window ...

Since confidence intervals can be enhanced by taking into account seasonality, we present some tools for change point analysis on wind series.

This article proposes a novel multi-objective lower upper bound estimation method to directly construct optimal wind power intervals without the assumption of any specific distribution function.

This paper describes a wind power forecasting method and its confidence interval estimation. Recently, flat control of wind power generators using various batter- ies has been required.

Here we have considered structural uncertainties arising from wind randomness, and identified speed correlations within 48 hours, as an important factor of variability for the annual power produced by turbines.

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