Study on the approach to dealing with the abnormal data
in real-time monitoring of the offshore wind turbine

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Abstracts：It has very important significance for the fan structure function analysis and evaluation of the security state to disposes the monitoring data of the offshore wind turbine in real-time. At the present stage, the methods for processing abnormal data in real-time should be improved. In this paper, the general rules of the monitoring data and the corresponding characteristics of abnormal data are obtained by analyzing the characteristics of monitoring data of the fan in real-time. The abnormal data is processed through the AR (n) prediction model, and the processing mechanism of this model is analyzed. Through appling this method to process the monitoring data of the wind speed and a variety of sensors, it has been proved that the method is effective and applicable for dealing with the anomaly monitoring data.

Key words：the abnormal data; deal with in time; processing mechanism; AR (n) prediction model with automatic parameter adjustment