

Interactive comment on “Change-point detection in wind turbine SCADA data for robust condition monitoring with normal behaviour models” by Simon Letzgus

Anonymous Referee #2

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The paper represents an valuable addition to the automatic data processing of SCADA data. By detecting the CPs reliably for further application of SCADA, such as monitoring and fault detections.

General question to the manuscript.

-In the manuscript it is mentioned that data 33 wind turbines from 3 different sites are analyzed in this paper. Do they represent the same turbine typology, i.e. geared versus direct drive, synchronous generator versus DFIG etc. What kind of site conditions they represent, complex terrain versus flat terrains. Age of the wind turbines? It is important in my opinion to discuss the representativeness of the data that are used in the analysis

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as the Resulting method will be applied to different turbine types, ages, site conditions etc.

-the data analyzed here are temperature data according to the table B.1 What is the reason behind this choice. Are there vibration data from the wind turbine also available for the analysis. Will the algorithm change if other Type of sensors are analyzed, e.g. acceleration data.

-Change of operation modes. Do the algorithm consider changes in the operational state of the wind turbines? For example, down regulation of power due to grid demand, noise reduced operation due to noise regulation In the night with medium high wind speeds. These can look like CPs in the data possibly.

-minor comments and edits can be found in the attached PDF file

Please also note the supplement to this comment:

<https://wes.copernicus.org/preprints/wes-2020-38/wes-2020-38-RC2-supplement.pdf>

Interactive comment on Wind Energ. Sci. Discuss., <https://doi.org/10.5194/wes-2020-38>, 2020.

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