

Wind Energ. Sci. Discuss., referee comment RC2
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Comment on wes-2021-53

Anonymous Referee #2

Referee comment on "On sensor optimisation for structural health monitoring robust to environmental variations" by Tingna Wang et al., Wind Energ. Sci. Discuss.,
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The paper deals with the optimization of sensors for damage identification considering the temperature which is one of the main parameters that induce changes in structures. A method is proposed based on an objective function which is defined by using a support vector machine (SVM). Additionally, the presented experiment shows the importance of understanding the environmental conditions in structural health monitoring for reliable damage assessment.

The reviewer would like to ask if the proposed method is also applicable in the SHM systems where the structures are monitored continuously in the existence of temperature changes. In other words, by using the proposed feature extraction methods, is it possible to detect sensitivities to the damage by using a set of measurements that have frequency variations caused by temperature?

The paper is well written and organized. The quality of the experiment is high, and the results are clearly presented, and the graphics are readable. The minor corrections are already made with the suggestions of the first reviewer. I would not suggest any other corrections.