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Subject Response to Associate Editor

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Associate Editor, Wind Energy Science

Dear Prof. Nejad,

Thank you for your comments. We have carefully considered all of the points raised and revised the paper accordingly. This letter serves to address your comments and provide an overview of the changes made. Below, we will respond to each of your review comments, and at the end of this document, a colour-coded revised version is included showing the changes made to the manuscript.

Yours sincerely,

Amr and the co-authors

Enclosure(s): Response to comments of Associate Editor

Response to comments of the Associate Editor

Associate Editor: Table 1 (in the original submission) to be restored in the paper with proper citation given to the original source.

Authors: *Thank you for your comment. Table 1 was restored and cited.*

Associate Editor: In general, the paper to be re-balanced, with the introduction reduced and more emphasis placed on referring back to existing literature and limiting the exposition to what is necessary to understand the novel contributions of the paper in the later sections. In case that the authors would like to keep the extended literature review, it is then recommended to consider a new submission under "review article" rather than "original research".

Authors: *Thank you for your comment. While the manuscript has been rebalanced to emphasize our findings, we would like to clarify that this is a Research Article. The current structure is intentional and follows the precedent set by recent research in this journal [1], and in others as well [2]. Specifically, we point to [1], where the published peer-review reports explicitly required the inclusion of systems-theory rigour and a detailed comparison with existing controllers to ensure a robust analysis. By following a similar presentation, we aim to meet the high standards for technical depth and comparative evaluation previously established by this journal's editorial process for this specific control subject.*

Associate Editor: The paper should cite the conference paper of the author's that this paper is building on and directly explain the relationship between that work and this and what is being expanded here. As mentioned earlier, this should been done during the submission process in the relevant form.

Authors: *Thank you for this comment. We have clarified the relationship between the previous conference paper [3] and the current manuscript. While the current work builds upon the preliminary findings presented in [3], we would like to highlight that this manuscript contains entirely original results and figures. The methodology is totally new, and none of the data presented here has been previously published.*

References

[1] M. Capaldo and P. Mella. Damping analysis of floating offshore wind turbines (fowts): a new control strategy reducing the platform vibrations. *Wind Energy Science*, 8(8):1319–1339, 2023.

[2] David Stockhouse, Manuel Pusch, Rick Damiani, Senu Sirnivas, and Lucy Pao. Robust multi-loop control of a floating wind turbine. *Wind Energy*, 27(11):1205–1228, 2024.

[3] Amr Hegazy, Peter Naaijen, and Jan-Willem van Wingerden. A novel control architecture for floating offshore wind turbines. In *IFAC 22nd World Congress*, 2023.