

This paper is concerned with the investigation of IFF control for rotating platform applications. The paper is interesting and well-written where some novel results have been obtained. I recommend revision of the manuscript considering the following comments:

- 1) The 'Introduction' section should be improved, for example by clarifying the state of the art of the applications of IFF and its modified schemes and highlighting the differences between IFF and other active damping approaches. In this context, do other active damping approaches like direct velocity feedback also suffer from the instability issue induced by rotations of the platform?
- 2) The authors may also want to condense the paper such that it is written in a concise and clear way more appropriate for a technical paper. For example, Eqs. (4a) and (4b), Figure 2 and Figure 13 are not necessary to be included.
- 3) The control plants have been clearly studied, but it is not the case for the disturbance path. The authors should indicate how the disturbances for example the ones in Figures 19 and 20 are propagating to the system.
- 4) Some typos and grammar errors must be avoided for the future submission.