Review of: "Optimal Latency Compensator for Improved Performance of Teleoperated UGVs on Soft Terrains"

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Potential competing interests: no

The article investigates the impact of time delay on low-speed UGV bilateral teleoperation operating on soft terrain and proposes an optimal time delay compensator to mitigate this impact. A genetic algorithm-based predictive variable framework was proposed to optimize the regularization parameters of model-free predictive variables. This method aims to improve prediction accuracy, thereby enhancing the performance of UGVs in the presence of delays. Finally, some simulation tests are carried out to illustrate the proposed method. The paper has clear innovation points and is a good paper, but needs to be modified:

1. The article also has some writing errors, such as the "of" in "The Two-Degree Of Freedom (DOF)," where the initial letter should be lowercase.

2. There is a formatting error in the legend of Figure 1, and a period should be added before “The red lines.”

3. The symbol of the matrix should be bold to distinguish it from other mathematical symbols, such as Mm in formula (1).

4. Figures need to be referenced and explained in the text, such as Figure 12 and Figure 19.

5. There is still an issue with the formatting in the text, and there should be no indentation before where the letters are interpreted.

6. There are many grammar errors. Please check the English throughout the paper carefully.