

Peer Review

Review of: "Enhancing Lifelong Multi-Agent Path Finding with Cache Mechanism"

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Review Comments:

In general, the contribution of this manuscript is clear and good. The mechanism of Life long MAPF with Cache Mechanism (L-MAPF-CM) has been clearly described. It integrates high-level cache storage with low-level path planning. A proposed map grid called "cache" for temporary item storage has been suggested. Additionally, a task assigner (TA) with a locking mechanism to bridge the gap between the new cache grid and L-MAPF algorithm has been involved as well.

Therefore, my recommendation is to accept (Minor Revision). However, several adjustments must be made before publication, as explained in the following comments:

- 1- You need to add some pre-explanation to Figure 2 to describe the sequence of the possible events.
- 2- Figure 5 needs to be described and clarified; it's unclear and has not been explained in the text of the paper.
- 3- It would be helpful to present comparative numerical results for the experimental work in a table for clarity.
- 4- Some references are relatively old. It is recommended to keep only the necessary old references in addition to the recently published related works, e.g., [1], [3], [15], [16].

Regards,

Declarations

Potential competing interests: No potential competing interests to declare.