1. How does this LiDAR-only approach compare to IMU-fused methods? A direct comparison would be valuable.

Thanks for your constructive review.Based on your valuable suggestion, we have conducted additional experiments and included the results in the revised manuscript.

In Figure 3, the sizes of the orange boxes within "LIDAR Odometry" are not uniform, resulting in inconsistent lengths of the blue arrows connecting the boxes. Additionally, some arrows do not properly connect to the boxes. It is suggested that the authors rearrange the shapes and sizes of the boxes and adjust the arrows accordingly to ensure proper alignment and connection.

Thank you for your comments and suggestion concerning our manuscript. We have modified the orange box size in "LIDAR Odometry" to ensure consistency and ensure that each arrow is correctly connected to the box.

In the caption of Figure 4, there is a grammatical error in the sentence: "Here any two vehicle’s pose is recorded in the same time intervals." This should be revised to "Here, the poses of any two vehicles are recorded at the same time intervals."

In the caption of Figure 6, there is a grammatical error in the phrase: "An demonstrated example...". This should be corrected to "A demonstrated example...".

In the caption of Figure 13, there is a grammatical error in the phrase: "Where the each dimension...". This should be corrected to "Were each dimension… "

Thank you for your careful review. We are very sorry for the mistakes in this manuscript and inconvenience they caused in your reading.We have made the following modifications as per your suggestion:

Replace the sentence 'Here any two vehicles' pose is recorded in the same time intervals' in the explanation of Figure 4 with' Here, ', the poses of any two vehicles are recorded at the same time intervals.”。

Modify the phrase 'An demonstrated example...' in the explanation of Figure 6 to 'A demonstrated example...'.

Change the phrase 'Where the each dimension...' in the explanation of Figure 13 to 'Were each dimension...'.

Thank you again for your careful review.

In Figures 10, 11, and 12, the trajectories of different odometry frameworks are difficult to distinguish. It is recommended that the authors modify the thickness and color of each trajectory to enhance clarity. Additionally, it is suggested that the authors include the trajectory of the ground truth in Figures 10b, d, and f.

Thank you for your valuable suggestions on the readability of the chart. We have made the following modifications to the trajectories of different odometer frameworks in Figures 10, 11, and 12:

(1) The thickness of each trajectory line has been increased, and more prominent colors have been used to distinguish different odometer frames, in order to improve the clarity of the chart.

(2) In sections b, d, and f of Figure 10, ground truth has been added to better compare the performance of each framework.

We believe that these changes will significantly improve the readability and comparability of the charts. Thank you again for your careful review and constructive suggestions.