Response to Reviewer 2 Comments

1. Summary

Thank you for your suggestions on our manuscript entitled "CCBA-NMS-YD: A Vehicle Pedestrian Detection and Tracking Method Based on Improved YOLOv7 and DeepSort". All these suggestions are valuable and helpful for us to revise and improve the paper. We have carefully studied these suggestions and revised them, and we hope to get your approval.

2. Questions for General Evaluation	**Reviewer's Evaluation**	**Response and Revisions**
Does the introduction provide sufficient background and include all relevant references?	Must be improved	
Is the research design appropriate?	Can be improved	
Are the methods adequately described?	Must be improved	
Are the results clearly presented?	Must be improved	
Are the conclusions supported by the results?	Must be improved	

3. Point-by-point response to Comments and Suggestions for Authors

Comments 1: "Error! Reference source not found." - several references are not present

Response 1: Thank you for pointing this out. Thank you very much for your reminder, I'm very sorry for the reading inconvenience caused by my negligence, I've now changed all the references.

Comments 2: "Redmon et al. proposed" please add citation here

Response 2: Thank you for pointing this out. I have added the citation.

Comments 3: "evaluate the probability of each category8." what is a category8?

Response 3: Thank you for pointing this out. I apologize for the difficulty in reading the references because I did not leave the statements in the original text blank when citing them, and I have now made the change.

Comments 4: "one of the more practical versions available." what authors mean by "more practical versions available"?

Response 4: Thank you very much indeed for your comments. Since this article was started in January 2023, the most practical model at that time was YOLOv7, which outperformed YOLOv5. YOLOv8 had just been proposed, and its performance was not yet stable, so it was not considered. That's why I said "one of the more practical versions available."

Comments 5: Equation (1),(2),(3),(4),(5) - please introduce all symbols used in those two equations.

Response 5: Thank you for pointing this out. I have explained the symbols that appear in

these formulas.

Comments 6: What is "frame14", "one15"?

Response 6: Thank you for pointing this out. I apologize for the difficulty in reading the references because I did not leave the statements in the original text blank when citing them, and I have now made the change.

Comments 7: Equation (8) - it is not clear why there are constants "3" and "6". How they were chosen?

Response 7: Thank you very much for your reminder. 3 is added to the input x. This is done by shifting the value field to the right to transform otherwise negative values into positive values, avoiding the ReLU6 function from setting some values directly to 0 at the output.The ReLU6 function is then used to ensure that the result is constrained to be in the range of 0 through 6. Finally, the output of ReLU6 is divided by 6 and multiplied by the original input x to ensure that the output of the h_swish function is consistent in scale with the original input.

Comments 8: "Dataset analysis" you mention several datasets, however none of them is https://data.csail.mit.edu/graphics/fivek/ which is reported in "Data Availability Statement".

Response 8: Thank you for pointing this out. I have updated the links to these datasets

4. Response to Comments on the Quality of English Language

Point 1: I am not qualified to assess the quality of English in this paper

Response 1: I am very sorry for the inconvenience of your reading, I have rewritten the article to improve the quality of the English language.