Response to Reviewer 1 Comments

1. Summary

Thank you for your suggestions regarding the paper. We have carefully studied your suggestions and the referenced papers , and have made changes based on them, which we hope will meet with your approval.

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

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

Comments 1: In the sentence "traditional target detection algorithms and target detection algorithms based on deep learning", what exactly does traditional algorithm refer to, is it referring to traditional ML (better to name that as Traditional ML) or Image processing?

Response 1: Thank you very much for your reminder. It refers to traditional machine learning, which I have modified in my paper (line 39).

Comments 2: Regarding hand-designed feature extraction methods in image processing, more clarification/information is needed. You may refer to "Fusion of multi-scale bag of deep visual words features of chest X-ray images to detect COVID-19 infection" for reference.

Response 2: Thank you very much indeed for your comments. I have carefully read and cited this paper(line 45).

Comments 3: Abbreviation "MOTDT", "CCBA" ,"SAN" and so on in first place without spelling it out.

Response 3: Thank you very much for your reminder. I have revised it in thesis(Line 15, page 2 line 91, page 13 line 448).

Comments 4: Please introduce how attention is the major contribution here for detection. You may refer to " Fruit classification using attention-based MobileNetV2 for industrial applications" for how attention can contribute to image recognition.

Response 4: Thank you very much indeed for your comments. The contribution of attention mechanisms has been added to the paper on page 8, line 314.

Comments 5: rewrite the deep sort section in a standard algorithmic way.

Response 5: Thank you for pointing this out. I've added an introduction to the DeepSort pseudo-code(Listing 1, Line 200 on page 6).

Comments 6: The ablation study needs more clarification on which part of a network was improved with the given block such as CCBA, or SAN or any other.

Response 6: Thank you for pointing this out. I have indicated on page 13, line 450 of the paper which part of the network is to be used with the given block.