

CSE541 - Computer Vision

Weekly Report 6

**Improvising Object Tracking Algorithm SORT for Long-Term Trajectory Extraction**

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**Overview:**

This week, our focus shifted towards understanding and implementing the StrongSORT algorithm, building upon our previous exploration of Deep SORT

**Objective:**

Our objective of this week was to understand and implement the StrongSort algorithm.

**Focus Area:**

We concentrated on grasping the fundamental concepts behind StrongSORT, particularly its utilization of novel techniques to improve object tracking performance.

**Study Approach:**

We studied the paper’s methodology thoroughly and implemented the code to understand how StrongSORT is better than DeepSORT.

**Future Steps:**

In future steps, we plan to explore the utilization of YOLOv8 and YOLOx for detecting bounding boxes. Additionally, we aim to fine-tune the parameters of StrongSORT to enhance the overall accuracy of the algorithm.

### **References:**

1. Du, Y., Zhao, Z., Song, Y., Zhao, Y., Su, F., Gong, T., & Meng, H. (2023). StrongSORT: Make DeepSORT Great Again. arXiv preprint arXiv:2202.13514.