**HIWI – Omnidirectional Tracking**

I have tracked 2775 frames using 8 trackers namely Csrt, Camshift, Tld, Mosse, Medianflow, Kcf, Boosting, Mil. Below table depicts the performance of the trackers based on the output of yolo using pre trained weights.

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| --- | --- |
| **Name of tracker** | **Performance overview** |
| CAMSHIFT – Continuosly Adaptive Meanshift | Drifting of bounding box, ids are getting mixed |
| CSRT – Channel and Spatial Reliability Tracker | Tracking is good and id has not changed except in the case of occlusion of person. When two people cross over there is a shift of bounding box. |
| TLD – Tracking Learning Detection | Failed to track people, bad tracking |
| MOSSE - Minimum Output Sum of Squared Error | Fails during cross over and id’s get interchanged |
| Median flow tracker | Tracking fails and person with id 2 was not tracked |
| KCF - Kernalized Correlation Filter | Tracking well, overlapping of bounding boxes observed, tracker id of person 2 and 3 interchanged at later changes |
| BOOSTING | Tracking performance not good, mixing up of ids and overlapping of bounding boxes observed |
| MIL - Multiple Instance Learning | Id’s get interchanged during cross over, tracking is better than kcf |

The performance can be improved by training the model. The image below shows the tracked persons using **csrt**.



**SPACE ISSUES**

I have also faced some space problem due to which I was not able to save images, videos or execute it on GPU.

Some text editors and files are empty despite uploading the correct file. Below is the screenshot of the error.

