**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**.

