

## Details of implementation Experiments: tracking muti-object: 1) Tracking-by-detection step. Detector: Faster R-CM, FPN (RosNet-WI) detecting object locations dataset: MOTITDet independently in each frame. crop and resize pooling form tracks by linking (instead of RoI pooling) corresponding detections. @ reID: TriNet (ResNet-50). Siamese -> appearance vectors. triplet loss Freid: store killed bi-1. batch hard strategy compare embedding space and newly detected tracks -> re-identify via threshold solution: (3) motion model: clarge camera motion. The low violeo frame rate. CMC camera motion compensation **Enhanced Correlation Coefficient** constant velocity assumption Improvement:

- 1 model -> {accuracy: Mask R-CNN speed: one-stage (YOLO)
- 2 extension -> specific scenarios (additional feauture)