

MULTI-TARGET MULTI-CAMERA TRACKING

1. Task

MULTI-TARGET MULTI-CAMERA PEDESTRIAN TRACKING

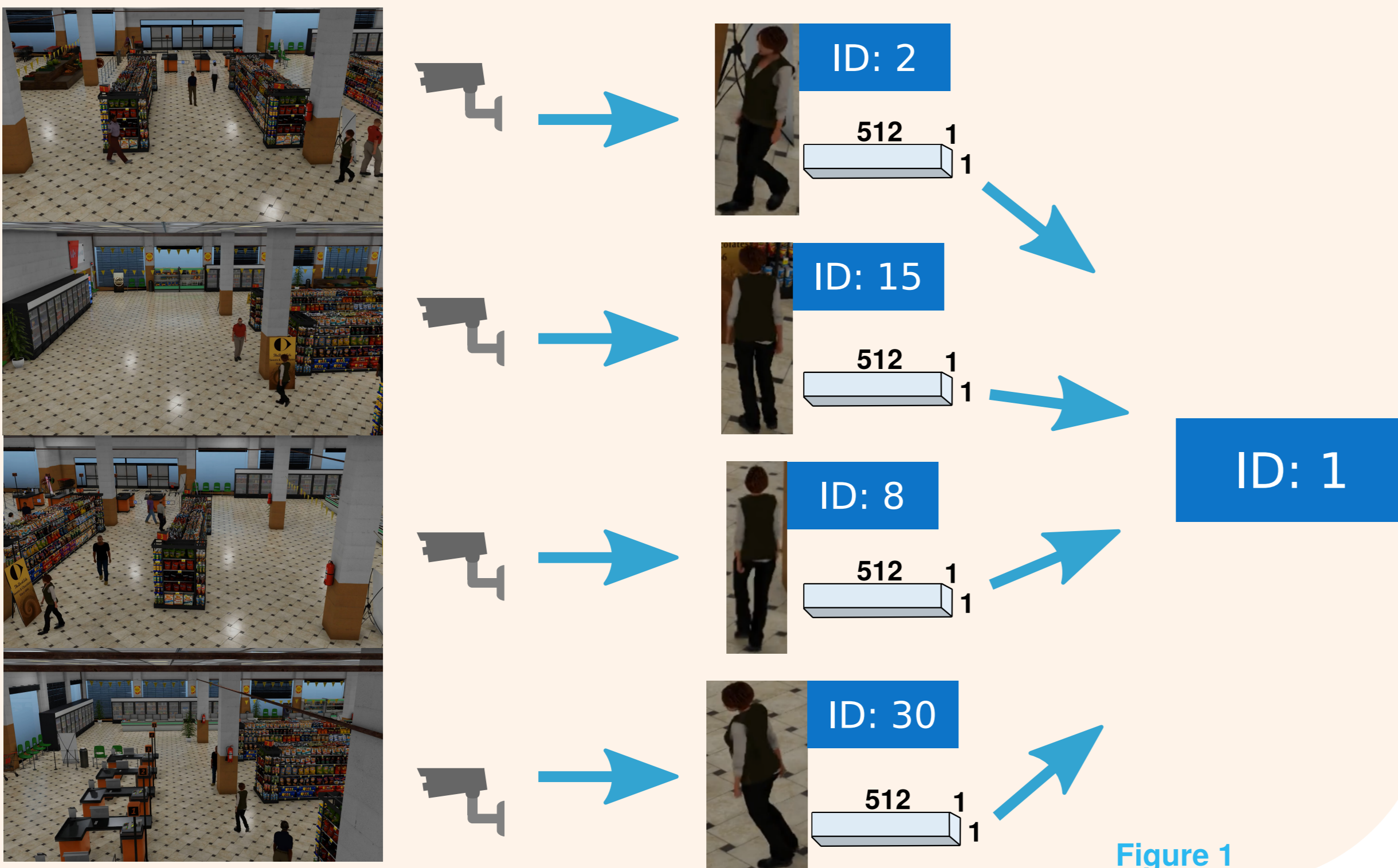


Figure 1

2. Created vehicle detection dataset

8106 manually annotated objects
3418 images

Figure 2



3. Scene examples from provided pedestrian dataset

Figure 3



4. Created pedestrian re-identification dataset

15 808 images
104 identities

Figure 4



5. Torchreid training results

Loss function

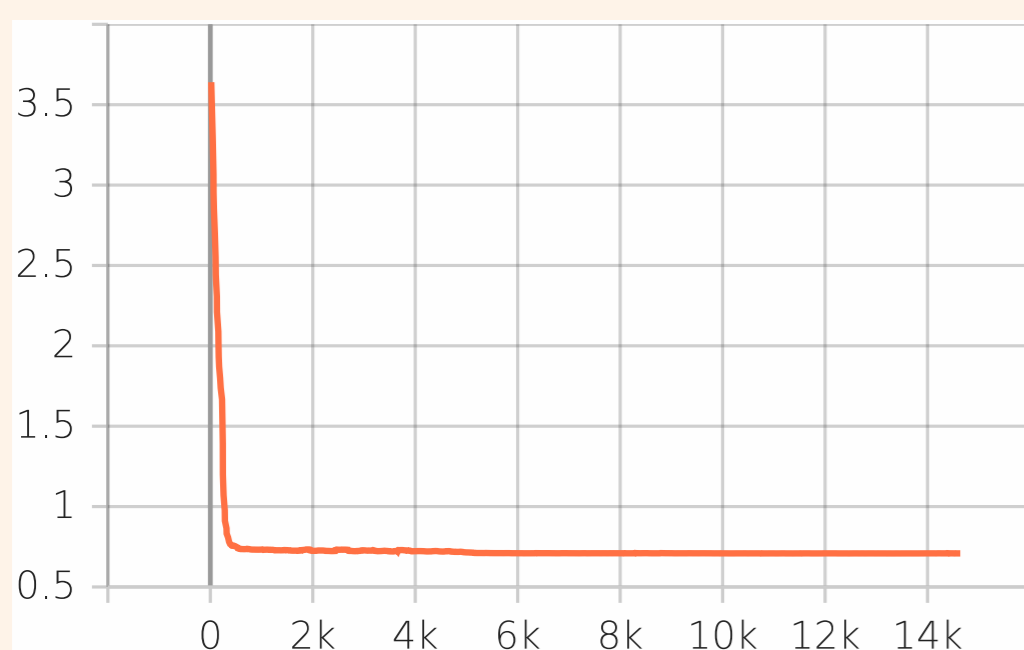


Figure 5

mAP

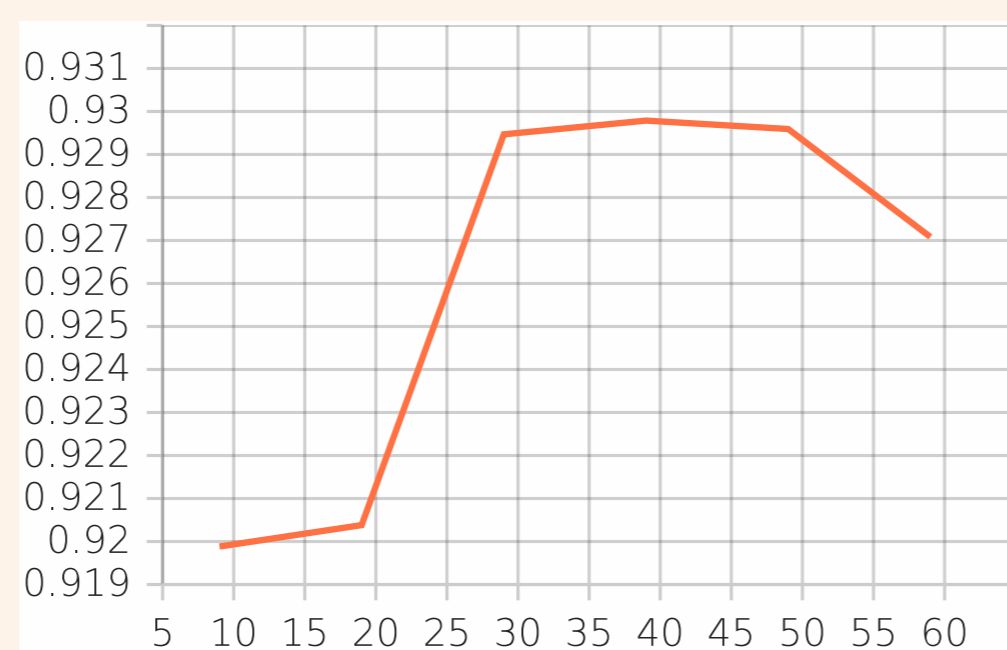


Figure 6

6. YOLOv7 training results

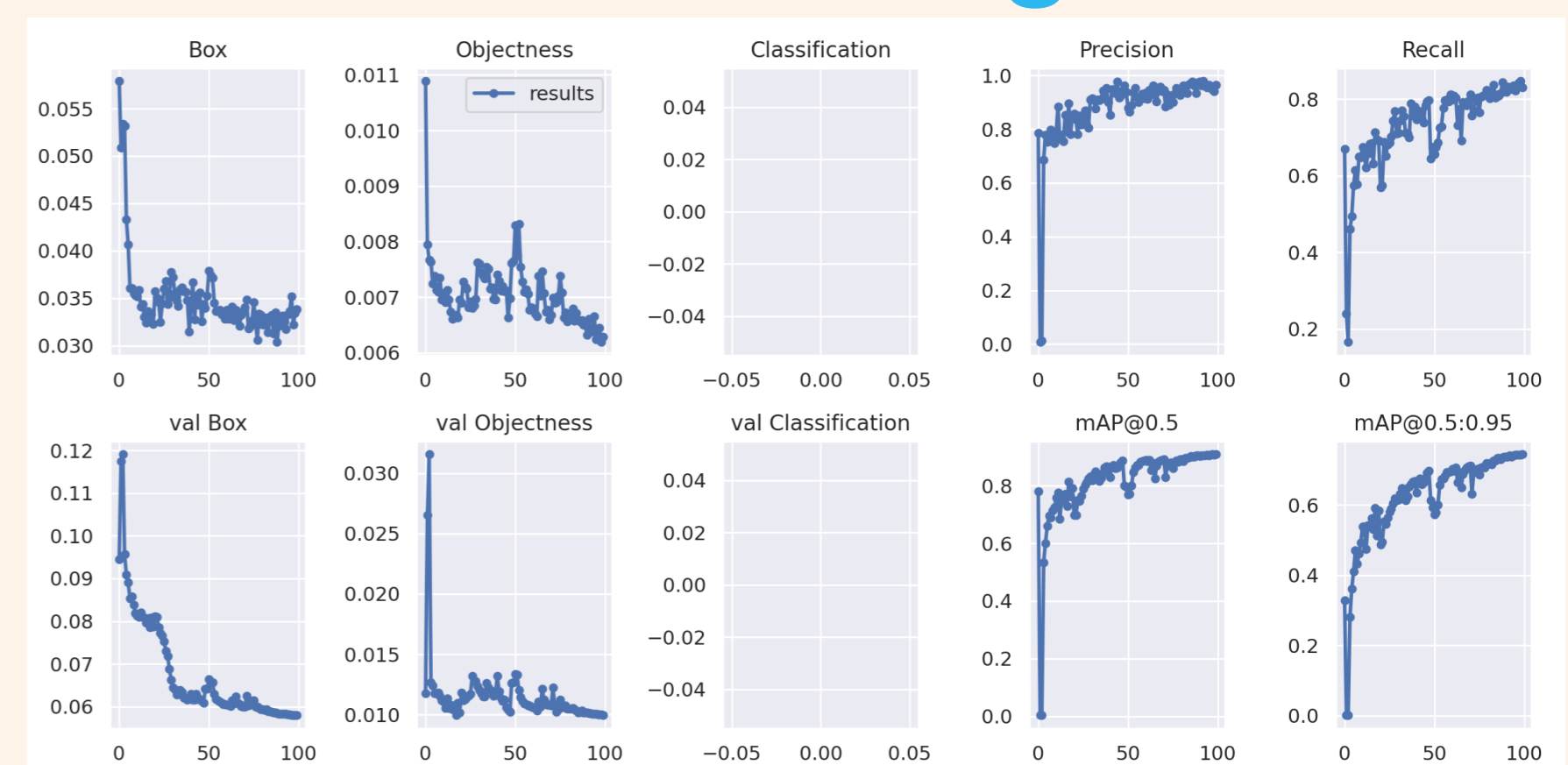


Figure 7

7. Proposed solution

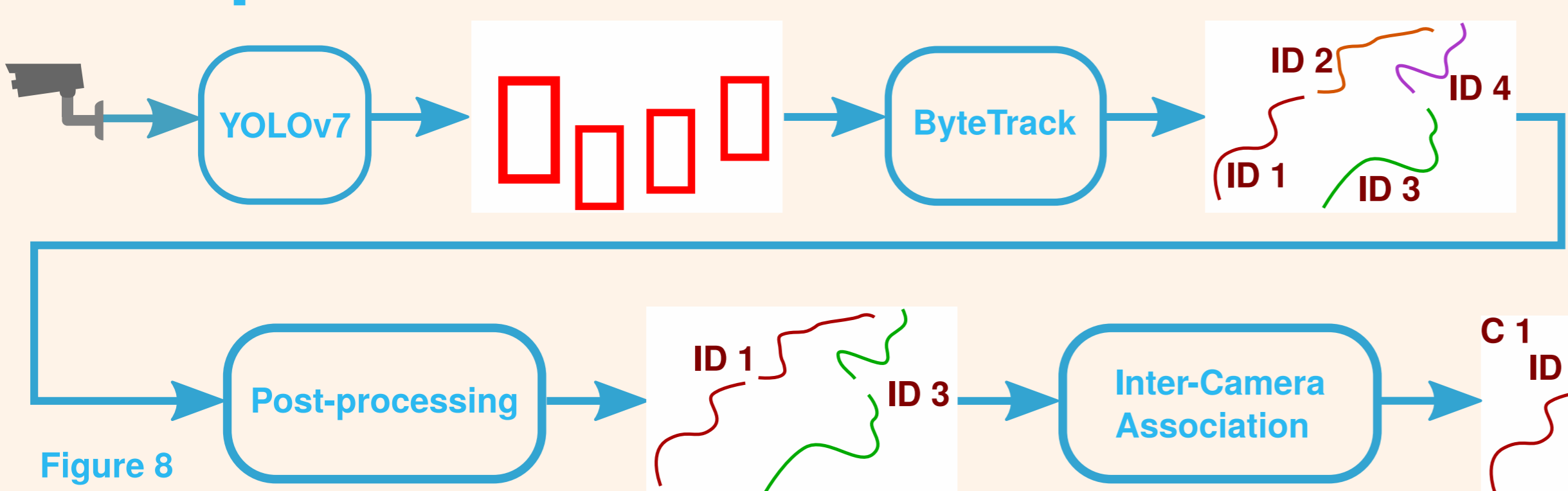


Figure 8