

**input** : Video frames;

**output**: Detection and tracking while handling occlusion;

1 Catch bounding boxes via YOLO detector;

2 Tracking list  $\leftarrow$  Caught bounding boxes;

3 while *Video is available* do

4   for  $n$  do

5       for  $Elements \in Tracking\ list$  do

6           if *Failure flag had set* then

7           Update bounding box location by predictor;

8           else

9           Update bounding box via Median-flow tracker;

10       Catching bounding boxes via YOLO detector;

11       Updating tracking;

12       list