

## Computing NCC

frame n

frame n+1

Object 1

Object 1

Object 2

Object 2

Object 3

Object 3

⋮

⋮

Get highest  
NCC

```
if highest_NCC >= threshold:  
    Automated ID assignment  
elif highest_NCC != -1:  
    Manual ID assignment  
else:  
    Manual ID assignment
```



Updated Ground Truth  
.txt (YOLO format)

[Class ID, **Object ID**, Center x, Center y, Width, Height]



Ground Truth  
.txt (YOLO format)

[Class ID, Center x, Center y, Width, Height]