

Computing NCC

frame n

frame n+1

Object 1

Object 1

Object 2

Object 2

Object 3

Object 3

⋮

⋮

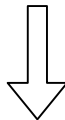
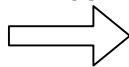
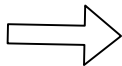
Get highest
NCC

```
if (highest_NCC >= threshold)
    Automated ID assignment
    (Copying ID from frame n to n+1)
else if (highest_NCC != -1)
    Manual ID assignment
else
    Manual ID assignment
```



Ground Truth
.txt (YOLO format)

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



Updated Ground Truth
.txt (YOLO format)

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