

Algorithm 1: Handover prediction

```
HP ← List();  
for  $i \leftarrow 1$  to  $\text{length}(\text{handover}) - 1$  do Handover loop  
    curr = handover[i]; next = handover[i+1];  
    /*overlapping handover*/  
    if Intersects(curr,next) then  
        | centroid = Centroid(Intersects(curr,next));  
        | Add(HP, NearestPoint(route, centroid));  
    else  
        | line = LineBetweenNearestPoint(curr,next);  
        | /*line crossing route*/  
        | if Intersects(line,route) then  
        | | Add(HP, Intersects(line,route));  
        | else  
        | | midPoint = MidPoint(line);  
        | | Add(HP, NearestPoint(route, midPoint));  
        | end  
    end  
end
```