

Algorithm 1: Handover adaption

```
for  $i \leftarrow 1$  to  $length(trajjectory)$  do Adaption  
  loop  
    allowedSpeed=MaxSpeed(trajjectory[i]);  
    c=trajjectory[i];  
    p=trajjectory[i-1];  
    n=trajjectory[i+1];  
    /*speed overrun*/  
    if  $Speed(c) \geq 1.7 * allowedSpeed$  then  
      cDist=Distance(c);  
      pDist=Distance(p);  
      nDist=Distance(n);  
      nominalDist=allowedSpeed*Duration(c);  
      SetSpeed(c,allowedSpeed);  
      if  $p == NULL \&\& n != NULL$  then  
        pDist=pDist+(cDist-nominalDist);  
        SetSpeed(p,pDist/Duration(p));  
      else if  $p != NULL \&\& n != NULL$  then  
        nDist=nDist+(cDist-nominalDist);  
        SetSpeed(n,nDist/Duration(n));  
      else  
        nTempDist=nDist+(cDist-nominalDist)/2;  
  
        pTempDist=pDist+(cDist-nominalDist)/2;  
  
        if  
           $nTempDist/Duration(n) \gg nominalSpeed$   
        then  
          nTempDist=nDist;  
          pTempDist=pDist+(cDist-nominalDist)  
        else if  
           $pTempDist/Duration(p) \gg nominalSpeed$   
        then  
          nTempDist=nDist+(cDist-nominalDist);  
  
          pTempDist=nDist;  
        SetSpeed(n,nTempDist/Duration(n));  
        SetSpeed(p,pTempDist/Duration(p));  
    end  
  end
```