Algorithm 1: Handover adaption

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