Num of Trains=10 (5 up, 5 down)

 $End\_sim\_time = 20000,$ 

getSpottingsNowTime = 10000,

peakThres=5 (500 meters both sides)

PosConf calculated for each point at distance of= 100 meters

Starting time gap between trains=30 min (1800 sec)

 $Halt\_time\_of\_Train = 20~sec$ 

Speed\_of\_The\_Train = 14 m/sec (50.4 km/h)

## 0.1 No. of passengers=200

## 0.1.1 central up route

| Table 1: Ground truth value |               |  |
|-----------------------------|---------------|--|
| Positions                   | NearestEstDis |  |
| $\mathbf{m}$                | m             |  |
| 6286.00                     | 314.00        |  |
| 15202.00                    | 298.00        |  |
| 28116.00                    | 284.00        |  |
| 33886.00                    | 314.00        |  |
| 51074.00                    | 374.00        |  |

| Table 2: E  | Stimated Value  |
|-------------|-----------------|
| Positions   | NearestTruthDis |
| m           | m               |
| 6600.00     | 314.00          |
| 15500.00    | 298.00          |
| 28400.00    | 284.00          |
| 34200.00    | 314.00          |
| 50700.00    | 374.00          |
| "AvgPosConf | 0.92"           |
| "MaxPosConf | 1.00"           |

## 0.1.2 central down route

 Table 3: Ground truth value

 Positions
 NearestEstDis

 m
 m

 6084.00
 284.00

 15 002.00
 9202.00

 28 198.00
 198.00

 33 954.00
 254.00

 50 882.00
 17 182.00

| Table 4: Estimated Value |                    |
|--------------------------|--------------------|
| Positions                | Near est Truth Dis |
| m                        | m                  |
| 5800.00                  | 284.00             |
| 27900.00                 | 298.00             |
| 28000.00                 | 198.00             |
| 33700.00                 | 254.00             |
| "AvgPosConf              | 1.00"              |
| "MaxPosConf              | 1.00"              |