Num of Trains=10 (5 up, 5 down)
End_sim_time = 30000,
getSpottingsNowTime = 21000,
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)

0.2 No. of passengers=10

0.2.1 central up route

Table 5: Ground truth value

Positions m	NearestEstDis m
12 246.00	37 854.00
21 442.00	28 658.00
34 644.00	15 456.00
44 120.00	5980.00
57 878.00	7778.00

Table 6: Estimated Value

Positions m	NearestTruthDis m
50 100.00	5980.00
”AvgPosConf	0.01”
”MaxPosConf	0.01”

0.2.2 central down route

Table 7: Ground truth value

Positions m	NearestEstDis m
124.00	24.00
5594.00	5494.00
21 964.00	164.00
27 440.00	5640.00
44 634.00	34.00

Table 8: Estimated Value

Positions m	NearestTruthDis m
100.00	24.00
21 800.00	164.00
44 600.00	34.00
”AvgPosConf	0.29”
”MaxPosConf	0.39”

Num of Trains=10 (5 up, 5 down)
End_sim_time = 30000,
getSpottingsNowTime = 21000,
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)

0.2 No. of passengers=50

0.2.1 central up route

Table 5: Ground truth value

$Positions$ m	$NearestEstDis$ m
12 246.00	154.00
21 442.00	158.00
34 644.00	156.00
44 120.00	180.00
57 878.00	13 578.00

Table 6: Estimated Value

$Positions$ m	$NearestTruthDis$ m
12 400.00	154.00
21 600.00	158.00
34 800.00	156.00
44 300.00	180.00
"AvgPosConf	0.48"
"MaxPosConf	0.88"

0.2.2 central down route

Table 7: Ground truth value

$Positions$ m	$NearestEstDis$ m
124.00	24.00
5594.00	94.00
21 964.00	64.00
27 440.00	40.00
44 634.00	34.00

Table 8: Estimated Value

$Positions$ m	$NearestTruthDis$ m
100.00	24.00
5500.00	94.00
11 800.00	6206.00
21 900.00	64.00
27 400.00	40.00
44 600.00	34.00
"AvgPosConf	0.46"
"MaxPosConf	0.80"

Num of Trains=10 (5 up, 5 down)
End_sim_time = 30000,
getSpottingsNowTime = 21000,
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)

0.2 No. of passengers=100

0.2.1 central up route

Table 5: Ground truth value

$Positions$	$NearestEstDis$
m	m
12 246.00	154.00
21 442.00	158.00
34 644.00	156.00
44 120.00	180.00
57 878.00	7778.00

Table 6: Estimated Value

$Positions$	$NearestTruthDis$
m	m
12 400.00	154.00
21 600.00	158.00
34 800.00	156.00
44 300.00	180.00
50 100.00	5980.00
”AvgPosConf	0.72”
”MaxPosConf	0.98”

0.2.2 central down route

Table 7: Ground truth value

$Positions$	$NearestEstDis$
m	m
124.00	24.00
5594.00	94.00
21 964.00	64.00
27 440.00	40.00
44 634.00	34.00

Table 8: Estimated Value

$Positions$	$NearestTruthDis$
m	m
100.00	24.00
5500.00	94.00
11 800.00	6206.00
21 900.00	64.00
27 400.00	40.00
44 600.00	34.00
”AvgPosConf	0.59”
”MaxPosConf	1.00”

Num of Trains=10 (5 up, 5 down)
End_sim_time = 30000,
getSpottingsNowTime = 21000,
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)

0.2 No. of passengers=200

0.2.1 central up route

Table 5: Ground truth value

$Positions$	$NearestEstDis$
m	m
12 246.00	154.00
21 442.00	158.00
34 644.00	156.00
44 120.00	180.00
57 878.00	7778.00

Table 6: Estimated Value

$Positions$	$NearestTruthDis$
m	m
12 400.00	154.00
21 600.00	158.00
34 800.00	156.00
44 300.00	180.00
50 100.00	5980.00
"AvgPosConf	0.76"
"MaxPosConf	1.00"

0.2.2 central down route

Table 7: Ground truth value

$Positions$	$NearestEstDis$
m	m
124.00	24.00
5594.00	94.00
21 964.00	64.00
27 440.00	40.00
44 634.00	34.00

Table 8: Estimated Value

$Positions$	$NearestTruthDis$
m	m
100.00	24.00
5500.00	94.00
11 800.00	6206.00
21 900.00	64.00
27 400.00	40.00
44 600.00	34.00
"AvgPosConf	0.78"
"MaxPosConf	1.00"

Num of Trains=10 (5 up, 5 down)
End_sim_time = 30000,
getSpottingsNowTime = 21000,
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)

0.2 No. of passengers=500

0.2.1 central up route

Table 5: Ground truth value

Positions	NearestEstDis
m	m
12 246.00	154.00
21 442.00	158.00
34 644.00	156.00
44 120.00	180.00
57 878.00	7778.00

Table 6: Estimated Value

Positions	NearestTruthDis
m	m
12 400.00	154.00
21 600.00	158.00
34 800.00	156.00
44 300.00	180.00
50 100.00	5980.00
"AvgPosConf	0.82"
"MaxPosConf	1.00"

0.2.2 central down route

Table 7: Ground truth value

Positions	NearestEstDis
m	m
124.00	24.00
5594.00	94.00
21 964.00	64.00
27 440.00	40.00
44 634.00	34.00

Table 8: Estimated Value

Positions	NearestTruthDis
m	m
100.00	24.00
5500.00	94.00
11 800.00	6206.00
21 900.00	64.00
27 400.00	40.00
44 600.00	34.00
"AvgPosConf	0.93"
"MaxPosConf	1.00"

Num of Trains=10 (5 up, 5 down)
End_sim_time = 30000,
getSpottingsNowTime = 21000,
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)

0.2 No. of passengers=1000

0.2.1 central up route

Table 5: Ground truth value

| Positions | NearestEstDis |
m	m
12 246.00	154.00
21 442.00	158.00
34 644.00	156.00
44 120.00	180.00
57 878.00	7778.00

Table 6: Estimated Value

| Positions | NearestTruthDis |
m	m
12 400.00	154.00
21 600.00	158.00
34 800.00	156.00
44 300.00	180.00
50 100.00	5980.00
"AvgPosConf	0.88"
"MaxPosConf	1.00"

0.2.2 central down route

Table 7: Ground truth value

| Positions | NearestEstDis |
m	m
124.00	24.00
5594.00	94.00
21 964.00	64.00
27 440.00	40.00
44 634.00	34.00

Table 8: Estimated Value

| Positions | NearestTruthDis |
m	m
100.00	24.00
5500.00	94.00
11 800.00	6206.00
21 900.00	64.00
27 400.00	40.00
44 600.00	34.00
"AvgPosConf	0.97"
"MaxPosConf	1.00"

Num of Trains=10 (5 up, 5 down)
End_sim_time = 30000,
getSpottingsNowTime = 21000,
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)

0.2 No. of passengers=5000

0.2.1 central up route

Table 5: Ground truth value

$Positions$	$NearestEstDis$
m	m
12 246.00	154.00
21 442.00	158.00
34 644.00	156.00
44 120.00	180.00
57 878.00	7778.00

Table 6: Estimated Value

$Positions$	$NearestTruthDis$
m	m
12 400.00	154.00
21 600.00	158.00
34 800.00	156.00
44 300.00	180.00
50 100.00	5980.00
"AvgPosConf	1.00"
"MaxPosConf	1.00"

0.2.2 central down route

Table 7: Ground truth value

$Positions$	$NearestEstDis$
m	m
124.00	176.00
5594.00	94.00
21 964.00	64.00
27 440.00	40.00
44 634.00	34.00

Table 8: Estimated Value

$Positions$	$NearestTruthDis$
m	m
300.00	176.00
5500.00	94.00
11 800.00	6206.00
21 900.00	64.00
27 400.00	40.00
44 600.00	34.00
45 300.00	666.00
"AvgPosConf	1.00"
"MaxPosConf	1.00"

Num of Trains=10 (5 up, 5 down)
End_sim_time = 30000,
getSpottingsNowTime = 21000,
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)

0.2 No. of passengers=10000

0.2.1 central up route

Table 5: Ground truth value

Positions	NearestEstDis
m	m
12 246.00	154.00
21 442.00	158.00
34 644.00	156.00
44 120.00	180.00
57 878.00	7778.00

Table 6: Estimated Value

Positions	NearestTruthDis
m	m
12 400.00	154.00
21 600.00	158.00
34 800.00	156.00
44 300.00	180.00
50 100.00	5980.00
"AvgPosConf	1.00"
"MaxPosConf	1.00"

0.2.2 central down route

Table 7: Ground truth value

Positions	NearestEstDis
m	m
124.00	176.00
5594.00	94.00
21 964.00	64.00
27 440.00	40.00
44 634.00	34.00

Table 8: Estimated Value

Positions	NearestTruthDis
m	m
300.00	176.00
5500.00	94.00
11 800.00	6206.00
21 900.00	64.00
27 400.00	40.00
44 600.00	34.00
45 300.00	666.00
"AvgPosConf	1.00"
"MaxPosConf	1.00"

Num of Trains=10 (5 up, 5 down)
End_sim_time = 30000,
getSpottingsNowTime = 21000,
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)

0.2 No. of passengers=50000

0.2.1 central up route

Table 5: Ground truth value

$Positions$	$NearestEstDis$
m	m
12 246.00	154.00
21 442.00	158.00
34 644.00	156.00
44 120.00	180.00
57 878.00	7778.00

Table 6: Estimated Value

$Positions$	$NearestTruthDis$
m	m
12 400.00	154.00
21 600.00	158.00
34 800.00	156.00
44 300.00	180.00
50 100.00	5980.00
"AvgPosConf	1.00"
"MaxPosConf	1.00"

0.2.2 central down route

Table 7: Ground truth value

$Positions$	$NearestEstDis$
m	m
124.00	176.00
5594.00	94.00
21 964.00	64.00
27 440.00	40.00
44 634.00	34.00

Table 8: Estimated Value

$Positions$	$NearestTruthDis$
m	m
300.00	176.00
5500.00	94.00
11 800.00	6206.00
21 900.00	64.00
27 400.00	40.00
44 600.00	34.00
45 300.00	666.00
"AvgPosConf	1.00"
"MaxPosConf	1.00"