$End\_sim\_time = 30000,$ 

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)

## 0.1 No. of passengers=10

## 0.1.1 western up route

Table 1: Ground truth value	
Positions	NearestEstDis
m	m
1356.00	21444.00
22642.00	158.00
64544.00	156.00

 $24\,206.00$ 

 $48\,280.00$ 

Table 2: Estimated Value	
Positions	NearestTruthDis
m	$\mathbf{m}$
22 800.00	158.00
64700.00	156.00
"AvgPosConf	0.15"
"MaxPosConf	0.22"

### 0.1.2 western down route

88 906.00

 $112\,980.00$ 

Table 3: Ground truth value

Positions NearestEstDi

Positions	NearestEstDis
m	m
19642.00	42.00
42326.00	22026.00
66124.00	45824.00
85586.00	65286.00
109942.00	89642.00

Table 4: Estimated Value	
Positions	NearestTruthDis
$\mathbf{m}$	m
19 600.00	42.00
20300.00	658.00
"AvgPosConf"	0.22"
"MaxPosConf	0.24"

 $End\_sim\_time = 30000,$ 

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)

## 0.1 No. of passengers=50

### 0.1.1 western up route

Table 1: Ground truth value	
Positions	NearestEstDis
m	$\mathbf{m}$
1356.00	144.00
22642.00	158.00
64544.00	156.00
88906.00	194.00
112 980.00	23880.00

Table 2: Estimated Value	
Positions	NearestTruthDis
$\mathbf{m}$	m
1500.00	144.00
22800.00	158.00
64700.00	156.00
89100.00	194.00
"AvgPosConf"	0.50"
${\rm ``MaxPosConf'}$	0.93"

Table 3: Ground truth valuePositionsNearestEstDismm19 642.0042.0042 326.0026.0066 124.0019 376.0085 586.0086.00109 942.0024 442.00

Table 4: E	stimated Value
Positions	NearestTruthDis
m	m
1200.00	18442.00
19600.00	42.00
22200.00	2558.00
42300.00	26.00
85500.00	86.00
"AvgPosConf"	0.31"
${\rm ``MaxPosConf'}$	0.79"

 $End\_sim\_time = 30000,$ 

 ${\tt getSpottingsNowTime} = 21000,$ 

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)

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

 $Speed_of_The_Train = 14 \text{ m/sec } (50.4 \text{ km/h})$ 

## 0.1 No. of passengers=100

## 0.1.1 western up route

Table 1: Gro	ound truth value	Table 2: E	stimated Value
Positions	NearestEstDis	Positions	NearestTruthDis
m	m	m	m
1356.00	21444.00	22800.00	158.00
22642.00	158.00	64700.00	156.00
64544.00	156.00	113100.00	120.00
88906.00	24194.00	"AvgPosConf	0.47"
112980.00	120.00	${\rm ``MaxPosConf'}$	0.96"

Table 3: Ground truth value	
Positions	NearestEstDis
m	m
19 642.00	42.00
42326.00	26.00
66124.00	19276.00
85586.00	86.00
109942.00	42.00

Table 4: Estimated Value	
Positions	NearestTruthDis
m	m
1200.00	18 442.00
19600.00	42.00
42300.00	26.00
85400.00	186.00
85500.00	86.00
109900.00	42.00
"AvgPosConf	0.76"
"MaxPosConf	1.00"

 $End\_sim\_time = 30000,$ 

 ${\tt getSpottingsNowTime} = 21000,$ 

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)

# 0.1 No. of passengers=200

## 0.1.1 western up route

Table 1: Ground truth value	
Positions	NearestEstDis
m	$\mathbf{m}$
1356.00	144.00
22642.00	158.00
64544.00	156.00
88906.00	194.00
112980.00	23880.00

Table 2: Estimated Value	
Positions	NearestTruthDis
$\mathbf{m}$	m
1500.00	144.00
22800.00	158.00
64700.00	156.00
89100.00	194.00
"AvgPosConf"	0.65"
"MaxPosConf	1.00"

Table 3: Gro	ound truth value
Positions	Near est Est Dis
m	$\mathbf{m}$
19 642.00	42.00
42326.00	26.00
66124.00	19276.00
85586.00	86.00
109 942.00	42.00

Table 4: Estimated Value		
Positions	NearestTruthDis	
m	m	
1200.00	18 442.00	
19600.00	42.00	
22200.00	2558.00	
42300.00	26.00	
85400.00	186.00	
85500.00	86.00	
109900.00	42.00	
"AvgPosConf	0.73"	
"MaxPosConf	1.00"	

 $End\_sim\_time = 30000,$ 

 ${\tt getSpottingsNowTime} = 21000,$ 

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)

## 0.1 No. of passengers=500

## 0.1.1 western up route

		Table 2: E	stimated Value
Table 1: Gro	ound truth value	Positions	NearestTruthDis
Positions	NearestEstDis	$\mathbf{m}$	m
m	m	1500.00	144.00
1356.00	144.00	22800.00	158.00
22642.00	158.00	64700.00	156.00
64544.00	156.00	89100.00	194.00
88906.00	194.00	113100.00	120.00
112980.00	120.00	"AvgPosConf"	0.57"
		${\rm `MaxPosConf}$	1.00"

		Table 4: Estimated Value	
		Positions	NearestTruthDis
Table 3: Gro	ound truth value	m	m
Positions	Near est Est Dis	1200.00	18 442.00
m	m	19600.00	42.00
19642.00	42.00	22200.00	2558.00
42326.00	26.00	42300.00	26.00
66124.00	19276.00	85400.00	186.00
85586.00	86.00	85500.00	86.00
109942.00	42.00	109900.00	42.00
		"AvgPosConf	0.84"
		"MaxPosConf	1.00"

 $End\_sim\_time = 30000,$ 

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)

# 0.1 No. of passengers=1000

## 0.1.1 western up route

		Table 2: E	stimated Value
Table 1: Gro	ound truth value	Positions	NearestTruthDis
Positions	NearestEstD is	$\mathbf{m}$	$\mathbf{m}$
m	m	1500.00	144.00
1356.00	144.00	22800.00	158.00
22642.00	158.00	64700.00	156.00
64544.00	156.00	89100.00	194.00
88906.00	194.00	113100.00	120.00
112980.00	120.00	"AvgPosConf"	0.77"
	_	${\rm `MaxPosConf}$	1.00"

		Table 4: Estimated Value	
		Positions	NearestTruthDis
Table 3: Gro	ound truth value	m	m
Positions	NearestEstDis	1200.00	18 442.00
m	m	19600.00	42.00
19642.00	42.00	22200.00	2558.00
42326.00	26.00	42300.00	26.00
66124.00	24.00	66100.00	24.00
85586.00	86.00	85500.00	86.00
109942.00	42.00	109900.00	42.00
		"AvgPosConf	0.88"
		"MaxPosConf	1.00"

 $End\_sim\_time = 30000,$ 

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)

# 0.1 No. of passengers=5000

## 0.1.1 western up route

		Table 2: E	stimated Value
Table 1: Gro	und truth value	Positions	NearestTruthDis
Positions	NearestEstD is	$\mathbf{m}$	$\mathbf{m}$
m	m	1500.00	144.00
1356.00	144.00	22800.00	158.00
22642.00	158.00	64700.00	156.00
64544.00	156.00	89100.00	194.00
88906.00	194.00	113100.00	120.00
112980.00	120.00	"AvgPosConf"	0.93"
	_	${\rm `MaxPosConf}$	1.00"

		Table 4: Estimated Value	
		Positions	NearestTruthDis
Table 3: Ground truth value		$\mathbf{m}$	m
Positions	NearestEstDis	1200.00	18 442.00
m	m	19600.00	42.00
19642.00	42.00	22200.00	2558.00
42326.00	26.00	42300.00	26.00
66124.00	24.00	66100.00	24.00
85586.00	86.00	85500.00	86.00
109942.00	42.00	109900.00	42.00
		"AvgPosConf"	0.92"
		${\rm "MaxPosConf}$	1.00"

 $End\_sim\_time = 30000,$ 

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)

# 0.1 No. of passengers=10000

## 0.1.1 western up route

		Table 2: E	stimated Value
Table 1: Gro	ound truth value	Positions	NearestTruthDis
Positions	NearestEstD is	m	m
m	m	1500.00	144.00
1356.00	144.00	22800.00	158.00
22642.00	158.00	64700.00	156.00
64544.00	156.00	89100.00	194.00
88906.00	194.00	113100.00	120.00
112980.00	120.00	"AvgPosConf"	1.00"
	_	${\rm `MaxPosConf}$	1.00"

		Table 4: E	stimated Value
		Positions	NearestTruthDis
Table 3: Gro	ound truth value	m	m
Positions	NearestEstD is	1200.00	18 442.00
m	m	19600.00	42.00
19642.00	42.00	22200.00	2558.00
42326.00	26.00	42300.00	26.00
66124.00	24.00	66100.00	24.00
85586.00	86.00	85500.00	86.00
109942.00	42.00	109900.00	42.00
		"AvgPosConf	0.96"
		"MaxPosConf	1.00"

 $End\_sim\_time = 30000,$ 

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)

## 0.1 No. of passengers=50000

### 0.1.1 western up route

Table 1: Ground truth value		
Positions	NearestEstD is	
$\mathbf{m}$	m	
1356.00	144.00	
22642.00	158.00	
64544.00	44.00	
88906.00	194.00	
112980.00	120.00	

Table 2: Es	stimated Value
Positions	NearestTruthDis
m	m
1500.00	144.00
22800.00	158.00
64500.00	44.00
64800.00	256.00
89100.00	194.00
113100.00	120.00
"AvgPosConf	1.00"
"MaxPosConf	1.00"

 $\begin{array}{c|cccc} \textbf{Table 3: Ground truth value} \\ \hline Positions & NearestEstDis \\ \hline \textbf{m} & \textbf{m} \\ \hline \\ 19\,642.00 & 42.00 \\ 42\,326.00 & 26.00 \\ 66\,124.00 & 24.00 \\ 85\,586.00 & 86.00 \\ 109\,942.00 & 42.00 \\ \hline \end{array}$ 

Table 4: Estimated Value	
Positions	NearestTruthDis
m	m
1200.00	18 442.00
19600.00	42.00
22200.00	2558.00
42300.00	26.00
66100.00	24.00
85500.00	86.00
109900.00	42.00
"AvgPosConf	1.00"
"MaxPosConf	1.00"