$End\_sim\_time = 20000,$ 

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)

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

 $Speed\_of\_The\_Train = 14 \text{ m/sec } (50.4 \text{ km/h})$ 

## 0.1 No. of passengers=10

#### 0.1.1 western up route

Table 1:	Ground	truth	value

Positions	NearestEstD is
m	m
15534.00	366.00
33602.00	17702.00
56844.00	40944.00
81206.00	65306.00
105280.00	89380.00

Table 2: E	stimated Value
Positions	NearestTruthDis
m	m
15 900.00	366.00
${\rm ``AvgPosConf'}$	0.17"

0.17"

"MaxPosConf

Table 3. Ground truth value

rable 5: Gro	una truth value
Positions	NearestEstD is
m	m
5180.00	280.00
27020.00	11720.00
49974.00	22026.00
74062.00	2062.00
117642.00	45642.00

Table 4: E	stimated Value
Positions	NearestTruthDis
m	m
4900.00	280.00
15300.00	10120.00
72000.00	2062.00
"AvgPosConf"	0.15"
"MaxPosConf	0.33"

 $End\_sim\_time = 20000,$ 

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=50

### 0.1.1 western up route

m 11 1 0	1, ,1 1	Table 2: E	stimated Value
Positions m	$\frac{\text{und truth value}}{NearestEstDis}$	Positions m	$NearestTruthDis\\ \mathbf{m}$
15 534.00 33 602.00 56 844.00 81 206.00 105 280.00	18 266.00 198.00 356.00 294.00 320.00	33 800.00 57 200.00 81 500.00 105 600.00 "AvgPosConf "MaxPosConf	198.00 356.00 294.00 320.00 0.29" 0.83"

Table 3: Ground truth value		
Positions	NearestEstDis	
m	m	
5180.00	10 020.00	
27020.00	220.00	
49974.00	23174.00	
74062.00	362.00	
117642.00	43942.00	

Table 4: Estimated Value			
Positions	NearestTruthDis		
$\mathbf{m}$	$\mathbf{m}$		
15 200.00	10 020.00		
15300.00	10120.00		
26800.00	220.00		
73700.00	362.00		
"AvgPosConf"	0.44"		
${\rm ``MaxPosConf'}$	0.71"		

 $End\_sim\_time = 20000,$ 

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=100

### 0.1.1 western up route

		<u>Table 2: E</u>	stimated Value
Table 1: Gro	und truth value	Positions	NearestTruthDis
Positions	NearestEstD is	m	$\mathbf{m}$
m	m	15 900.00	366.00
15534.00	366.00	33900.00	298.00
33602.00	298.00	57200.00	356.00
56844.00	356.00	81500.00	294.00
81206.00	294.00	105600.00	320.00
105280.00	320.00	"AvgPosConf"	0.55"
	_	${\rm `MaxPosConf}$	0.96"

		Table 4: E	Estimated Value
Table 3: Gro	ound truth value	Positions	NearestTruthDis
Positions	NearestEstD is	$\mathbf{m}$	m
m	m	15 200.00	10 020.00
5180.00	10020.00	15300.00	10120.00
27020.00	220.00	26800.00	220.00
49974.00	174.00	49800.00	174.00
74062.00	262.00	73800.00	262.00
117642.00	43842.00	"AvgPosConf"	0.63"
		"MaxPosConf	1.00"

 $End\_sim\_time = 20000,$ 

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 western up route

		Table 2: Estimated Value	
Table 1: Gro	ound truth value	Positions	NearestTruthDis
Positions	NearestEstD is	m	m
m	m	15 900.00	366.00
15534.00	366.00	33900.00	298.00
33602.00	298.00	57200.00	356.00
56844.00	356.00	81500.00	294.00
81206.00	294.00	105600.00	320.00
105280.00	320.00	"AvgPosConf"	0.80"
	_	${\rm `MaxPosConf}$	1.00"

		Table 4: E	Estimated Value
Table 3: Ground truth value		Positions	NearestTruthDi.
Positions	NearestEstDis	$\mathbf{m}$	m
m	m	15 200.00	10 020.00
5180.00	10020.00	15300.00	10120.00
27020.00	220.00	26800.00	220.00
49974.00	174.00	49800.00	174.00
74062.00	262.00	73800.00	262.00
117642.00	43842.00	"AvgPosConf"	0.79"
	_	"MaxPosConf	1.00"

 $End\_sim\_time = 20000,$ 

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=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	15 900.00	366.00
15534.00	366.00	33900.00	298.00
33602.00	298.00	57200.00	356.00
56844.00	356.00	81500.00	294.00
81206.00	294.00	105600.00	320.00
105280.00	320.00	"AvgPosConf	0.89"
		${\rm ``MaxPosConf'}$	1.00"

		Table 4: E	Estimated Value
Table 3: Ground truth value		Positions	NearestTruthDis
Positions	NearestEstDis	$\mathbf{m}$	m
m	m	15 200.00	10 020.00
5180.00	10020.00	15300.00	10120.00
27020.00	220.00	26800.00	220.00
49974.00	174.00	49800.00	174.00
74062.00	262.00	73800.00	262.00
117642.00	43842.00	"AvgPosConf"	0.92"
		"MaxPosConf	1.00"

 $End\_sim\_time = 20000,$ 

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)

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

 $Speed\_of\_The\_Train = 14 \text{ m/sec } (50.4 \text{ km/h})$ 

#### No. of passengers=1000 0.1

### 0.1.1 western up route

		Table 2: Estimated Value	
Table 1: Gro	Table 1: Ground truth value		NearestTruthDis
Positions	NearestEstDis	$\mathbf{m}$	m
m	m	15 900.00	366.00
15534.00	366.00	33900.00	298.00
33602.00	298.00	57200.00	356.00
56844.00	356.00	81500.00	294.00
81206.00	294.00	105600.00	320.00
105280.00	320.00	"AvgPosConf"	0.94"
		${\rm ``MaxPosConf'}$	1.00"

		Table 4: E	stimated Value
Table 3: Ground truth value		Positions	NearestTruthDis
Positions	NearestEstDis	$\mathbf{m}$	m
m	m	15 200.00	10 020.00
5180.00	10020.00	15300.00	10120.00
27020.00	220.00	26800.00	220.00
49974.00	174.00	49800.00	174.00
74062.00	262.00	73800.00	262.00
117642.00	43842.00	"AvgPosConf"	0.99"
-		${\rm ``MaxPosConf'}$	1.00"

 $End\_sim\_time = 20000,$ 

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=5000

### 0.1.1 western up route

Positions	NearestEstDis
m	m
5 534.00	366.00
3602.00	298.00
6844.00	356.00
206.00	294.00
280.00	320.00

Table 2: Estimated Value			
Positions	NearestTruthDis		
m	m		
15 900.00	366.00		
33900.00	298.00		
57200.00	356.00		
81500.00	294.00		
105600.00	320.00		
117400.00	12120.00		
"AvgPosConf	0.89"		
"MaxPosConf	1.00"		

 Table 3: Ground truth value

 Positions
 NearestEstDis

 m
 m

 5180.00
 180.00

 27 020.00
 220.00

 49 974.00
 174.00

 74 062.00
 262.00

 117 642.00
 43 842.00

Table 4: Estimated Value		
Positions	NearestTruthDis	
m	m	
5000.00	180.00	
15300.00	10120.00	
26800.00	220.00	
49800.00	174.00	
73800.00	262.00	
"AvgPosConf	1.00"	
"MaxPosConf	1.00"	

 $End\_sim\_time = 20000,$ 

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=10000

### 0.1.1 western up route

		Table 2: E	Table 2: Estimated Value	
Table 1: Gro	und truth value  NearestEstDis	Positions m	$NearestTruthDis\\$ m	
m	m	15 900.00	366.00	
15 534.00	366.00	33900.00 $57200.00$	298.00 $356.00$	
33602.00 $56844.00$	298.00 $356.00$	81500.00	294.00	
81 206.00	294.00	105600.00 $117400.00$	320.00 $12120.00$	
105 280.00	320.00	${\rm ``AvgPosConf'}$	0.94"	
		"MaxPosConf	1.00"	

		Table 4: E	stimated Value
Table 3: Ground truth value		Positions	NearestTruthDis
Positions	NearestEstD is	$\mathbf{m}$	$\mathbf{m}$
m	m	5000.00	180.00
5180.00	180.00	15300.00	10120.00
27020.00	220.00	26800.00	220.00
49974.00	174.00	49800.00	174.00
74062.00	262.00	73800.00	262.00
117642.00	43842.00	"AvgPosConf"	1.00"
		"MaxPosConf	1.00"

 $End\_sim\_time = 20000,$ 

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=50000

### 0.1.1 western up route

		Table 2: Estimated Value	
Table 1: Gro	und truth value NearestEstDis	Positions m	$NearestTruthDis\\$ m
m	m	15 900.00	366.00
15 534.00	366.00	33900.00 $57200.00$	298.00 $356.00$
33602.00 $56844.00$	298.00 $356.00$	81 500.00	294.00
81 206.00	294.00	105 600.00	320.00
105 280.00	320.00	117 400.00 "AvgPosConf	12 120.00 1.00"
		"MaxPosConf	1.00"

		Table 4: E	stimated Value
Table 3: Ground truth value		Positions	NearestTruthDis
Positions	NearestEstD is	$\mathbf{m}$	m
m	m	5000.00	180.00
5180.00	180.00	15300.00	10120.00
27020.00	220.00	26800.00	220.00
49974.00	174.00	49800.00	174.00
74062.00	262.00	73800.00	262.00
117642.00	43842.00	"AvgPosConf"	1.00"
	_	"MaxPosConf	1.00"