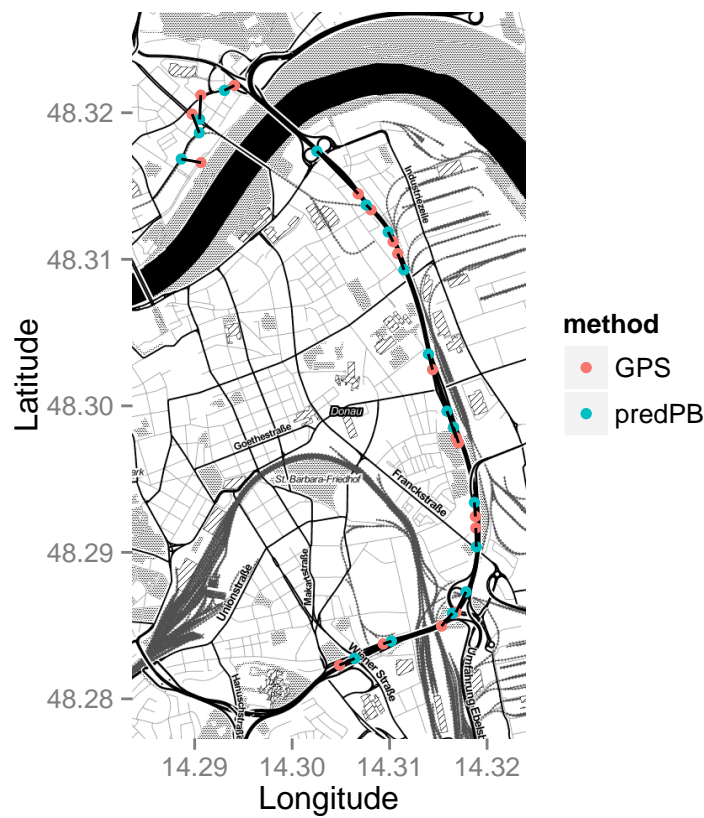


Subscriber 1058

Distance error between observed and predicted handover:

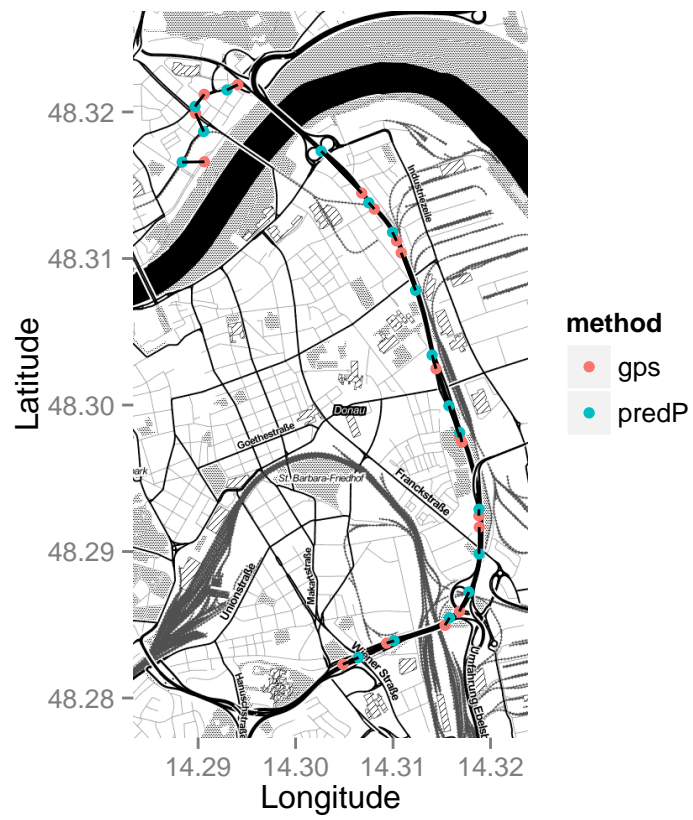
Handover estimation with buildings

##	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
##	0.132	0.260	0.346	0.399	0.524	0.884



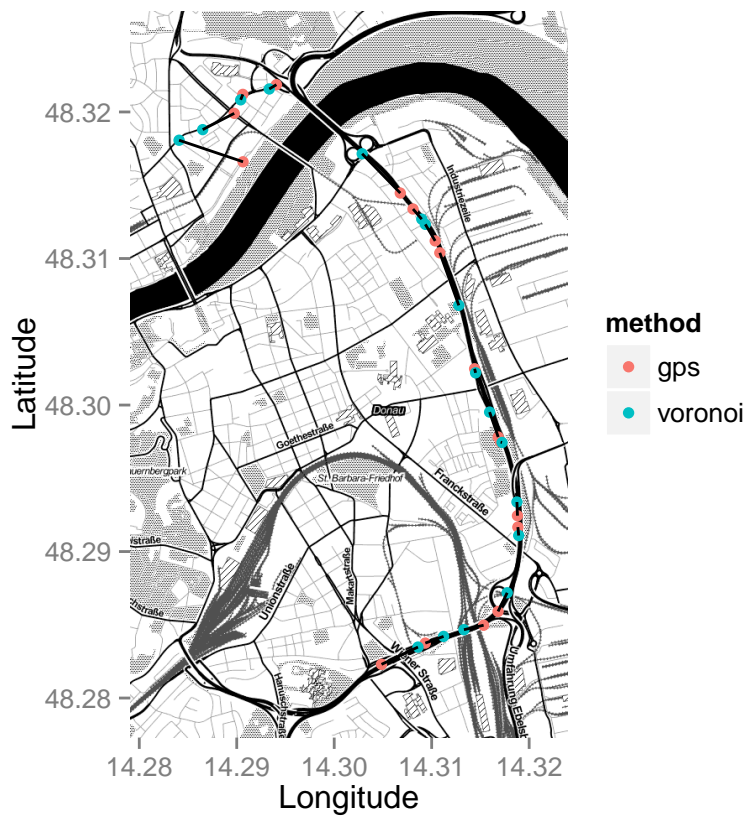
Handover estimation without buildings

##	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
##	0.219	0.286	0.320	0.401	0.483	0.900



Handover estimation Voronoi diagrams

##	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
##	0.048	0.229	0.343	0.386	0.482	0.900

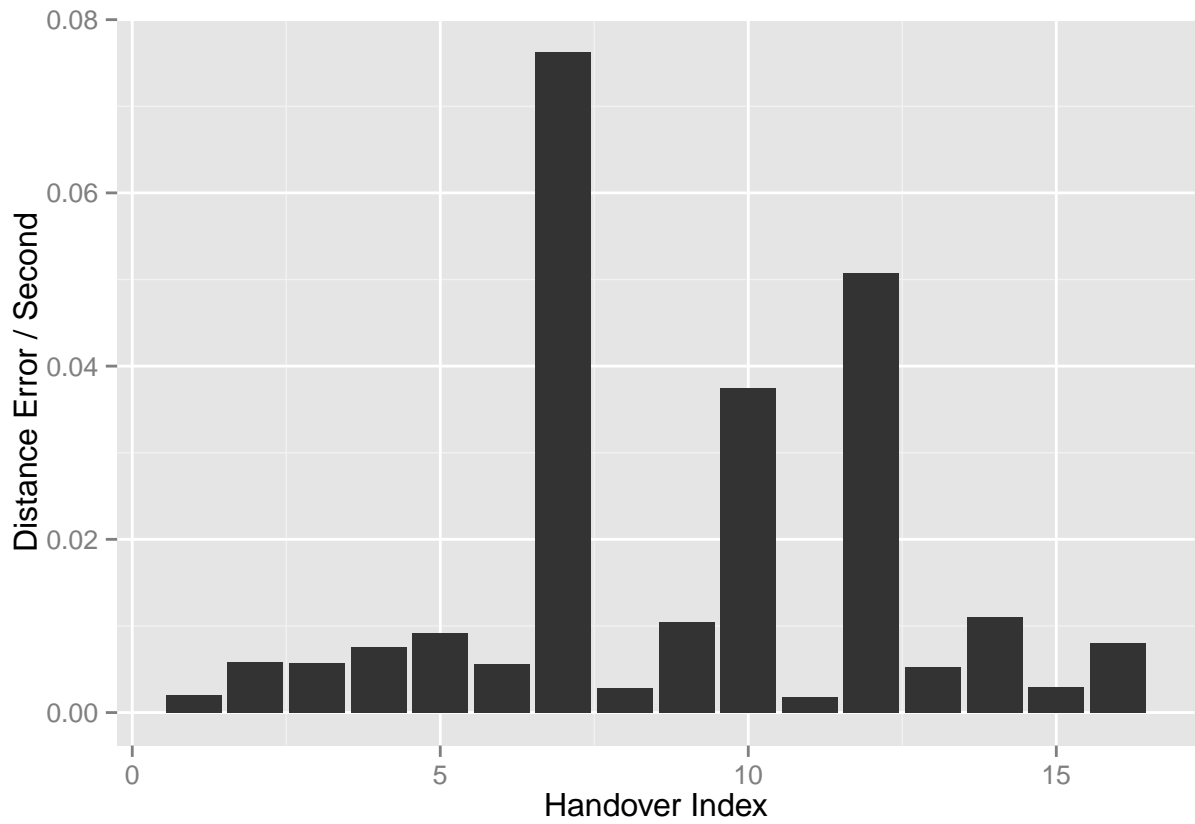


Handover deviation

```
## tikz output
##          2
```

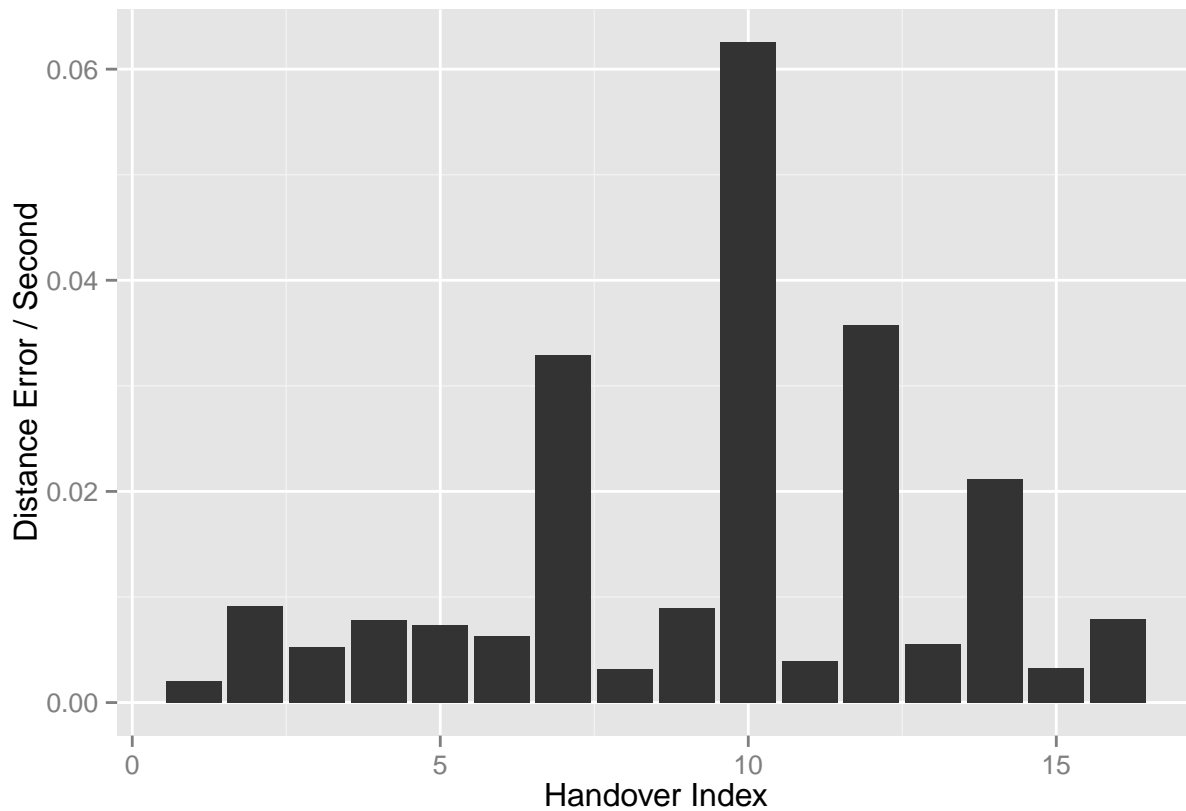
Handover difference prediction without buildings

```
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
## 0.0486 0.0726 0.1160 0.1480 0.1690 0.4420
```



Handover difference prediction with buildings

##	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
##	0.0516	0.1070	0.1270	0.1460	0.1520	0.4510



```
### Handover difference voronoi
```

```
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
## 0.0116 0.0641 0.1480 0.1850 0.2690 0.5120
```

```
## tikz output
##          2
```

Deviation Comparison

```
##      predP      predPB      voronoi
## Min.   :0.0486  Min.   :0.0516  Min.   :0.0116
## 1st Qu.:0.0726  1st Qu.:0.1068  1st Qu.:0.0641
## Median :0.1156  Median :0.1268  Median :0.1477
## Mean   :0.1478  Mean   :0.1463  Mean   :0.1854
## 3rd Qu.:0.1691  3rd Qu.:0.1517  3rd Qu.:0.2692
## Max.   :0.4417  Max.   :0.4508  Max.   :0.5121
```

Difference between raw and adaption:

Summary of estimated speed without adaption

Coverage prediction without buildings

```
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##    13.6   51.7   73.4   135.0   178.0   427.0
```

Coverage prediction with buildings

##	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
##	11.6	60.3	71.2	116.0	146.0	303.0

Voronoi diagrams

##	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
##	9.4	47.4	52.7	148.0	237.0	598.0

```
## tikz output
##          2
```

Speed Comparison

##	predP	predPB	voronoi
##	Min. : 13.6	Min. : 11.6	Min. : 9.4
##	1st Qu.: 51.7	1st Qu.: 60.3	1st Qu.: 47.4
##	Median : 73.4	Median : 71.2	Median : 52.7
##	Mean : 135.1	Mean : 115.7	Mean : 147.6
##	3rd Qu.: 178.5	3rd Qu.: 145.7	3rd Qu.: 236.6
##	Max. : 426.9	Max. : 303.0	Max. : 598.5

Summary of estimated speed with adaption

Coverage prediction without buildings

##	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
##	13.6	66.4	79.9	75.4	80.8	147.0

Coverage prediction with buildings

##	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
##	11.6	69.7	79.6	74.3	82.9	115.0

Voronoi diagrams

##	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
##	9.42	60.90	72.60	69.50	80.00	100.00

```
## tikz output
##          2
```

Speed Adapt Comparison

##	predPAdapt	predPBAdapt	voronoiAdapt
##	Min. : 13.6	Min. : 11.6	Min. : 9.42
##	1st Qu.: 66.4	1st Qu.: 69.8	1st Qu.: 60.87
##	Median : 79.9	Median : 79.6	Median : 72.56

```
## Mean      : 75.4    Mean      : 74.3    Mean      : 69.53
## 3rd Qu.: 80.8    3rd Qu.: 82.9    3rd Qu.: 80.00
## Max.      :146.8    Max.      :115.4    Max.      :100.00
```

Summary of speed errors without adaption:

Coverage prediction without buildings

```
##      Min. 1st Qu.  Median      Mean 3rd Qu.      Max.
##      0.5      3.9      23.7      81.3     90.1     336.0
```

Coverage prediction with buildings

```
##      Min. 1st Qu.  Median      Mean 3rd Qu.      Max.
##      2.05    12.80    22.40     61.00    66.70    226.00
```

Voronoi diagrams

```
##      Min. 1st Qu.  Median      Mean 3rd Qu.      Max.
##      10.3     26.0     37.0     114.0    156.0     507.0
```

```
## tikz output
##           2
```

Speed Error Comparison

```
##      predP          predPB          voronoi
## Min.   : 0.5    Min.   : 2.05    Min.   : 10.3
## 1st Qu.: 3.9    1st Qu.: 12.83   1st Qu.: 26.0
## Median : 23.7   Median : 22.43   Median : 37.0
## Mean   : 81.3   Mean   : 60.96   Mean   :114.0
## 3rd Qu.: 90.1   3rd Qu.: 66.69   3rd Qu.:155.8
## Max.   :335.9   Max.   :225.52   Max.   :507.5
```

Summary of speed errors with adaption:

Coverage prediction without buildings

```
##      Min. 1st Qu.  Median      Mean 3rd Qu.      Max.
##      0.49     1.03     3.71     8.97    10.20     55.80
```

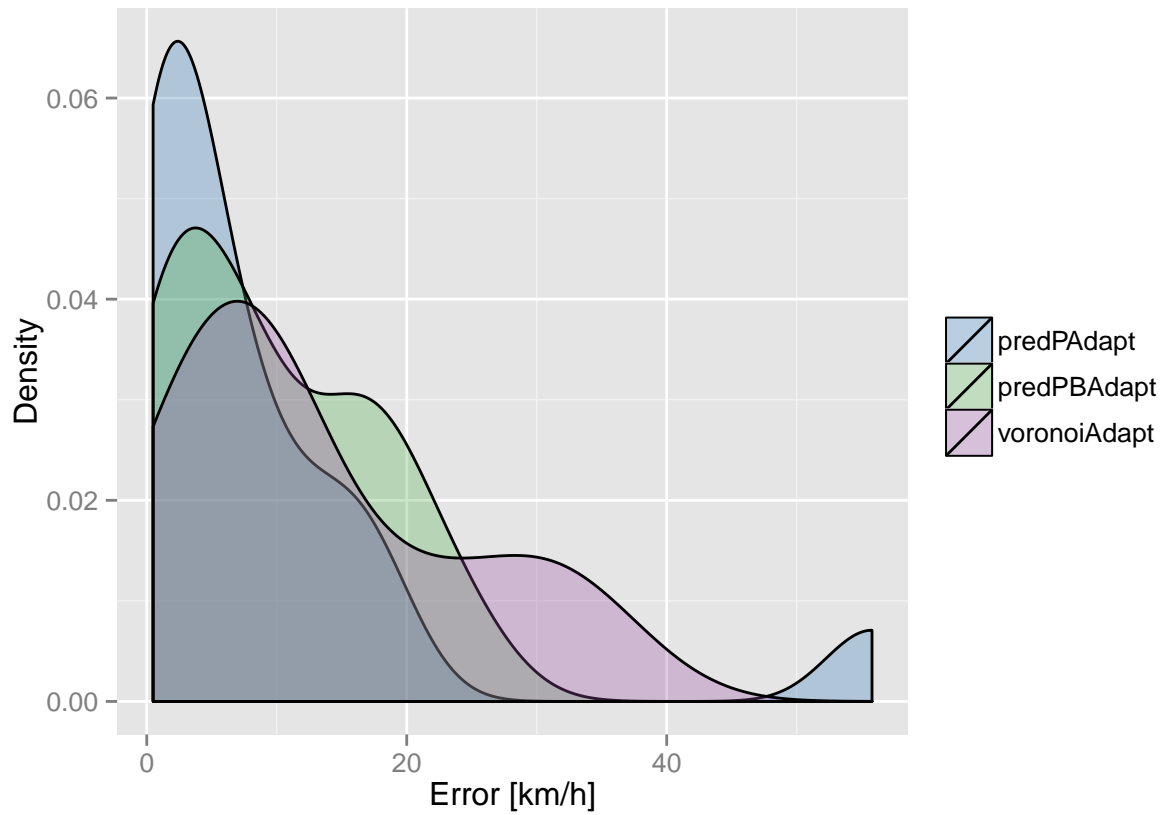
Coverage prediction with buildings

```
##      Min. 1st Qu.  Median      Mean 3rd Qu.      Max.
##      0.567    2.520    7.750     9.440    16.300    24.500
```

Voronoi diagrams

```
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##      0.57   5.79    9.22   13.00   20.40   35.50
```

```
## tikz output
##           2
```



Speed Adapt Error Comparison

```
##      predPAdapt      predPBAdapt      voronoiAdapt
##      Min.   : 0.49    Min.   : 0.567    Min.   : 0.57
##      1st Qu.: 1.03    1st Qu.: 2.517    1st Qu.: 5.79
##      Median : 3.71    Median : 7.747    Median : 9.22
##      Mean   : 8.97    Mean   : 9.436    Mean   :13.03
##      3rd Qu.:10.15    3rd Qu.:16.344    3rd Qu.:20.40
##      Max.   :55.79    Max.   :24.450    Max.   :35.47
```