

Interactive maps and spatial visualizations with R

Stefano Barberis



Agenda

Case studies:

1. Traffic Flow Analysis (Torino)
2. Analytical Study of Mobility (Milano)

2. Instruments



Main R packages:
sp, rgeos, spatstat, plotKML

Data
Sources

Storage

Visualisation



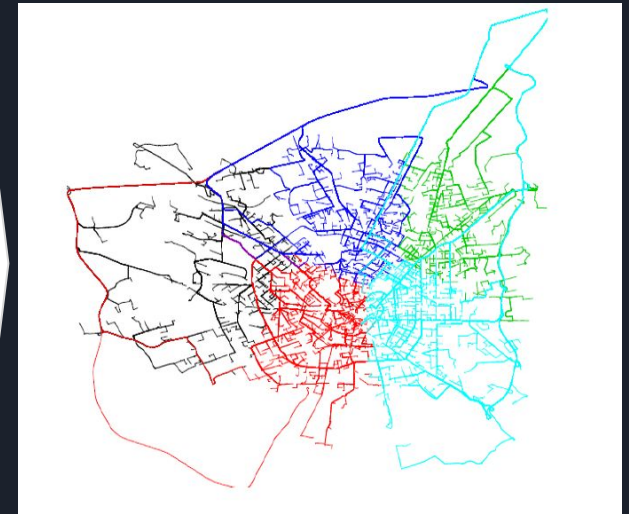
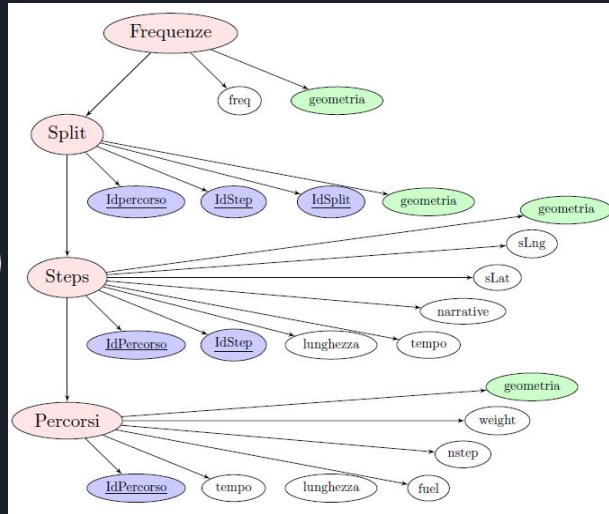
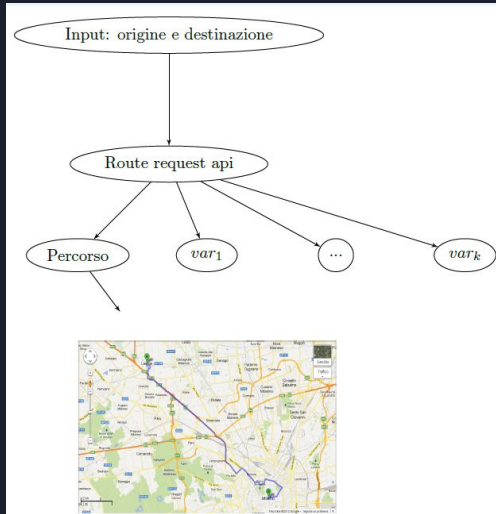
3. Analytical Study of mobility (Milano)



ROUTE	START	END	QTY
1	Varese	Milano, Via manzoni	23201
2	Como	Milano, via mazzini	2532
3	Bergamo	Milano, via verdi	12421
....

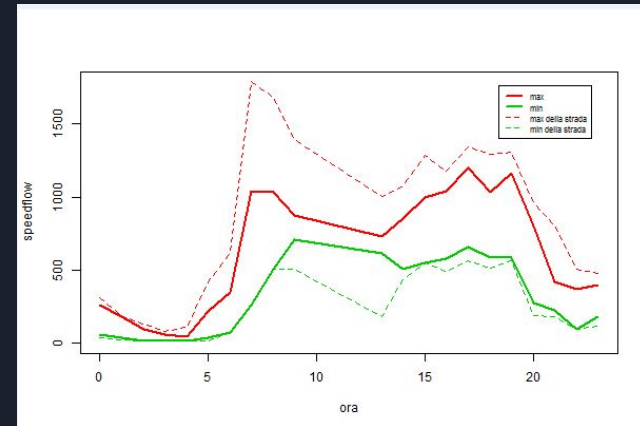
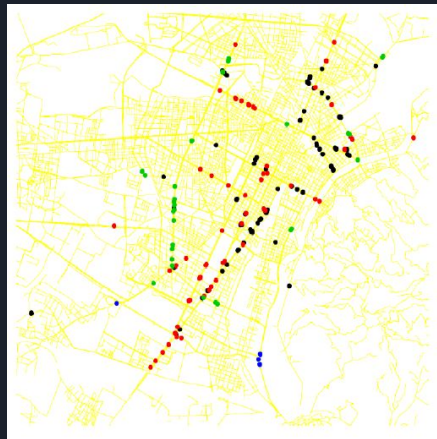
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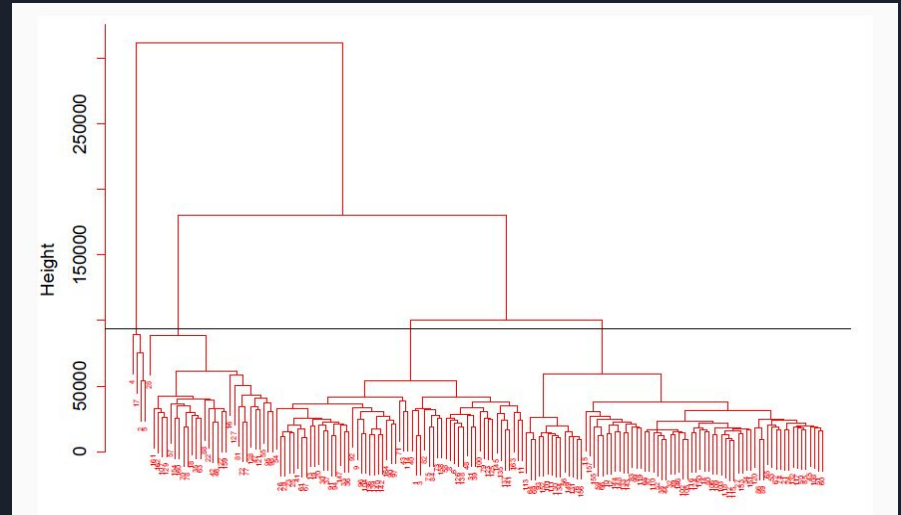
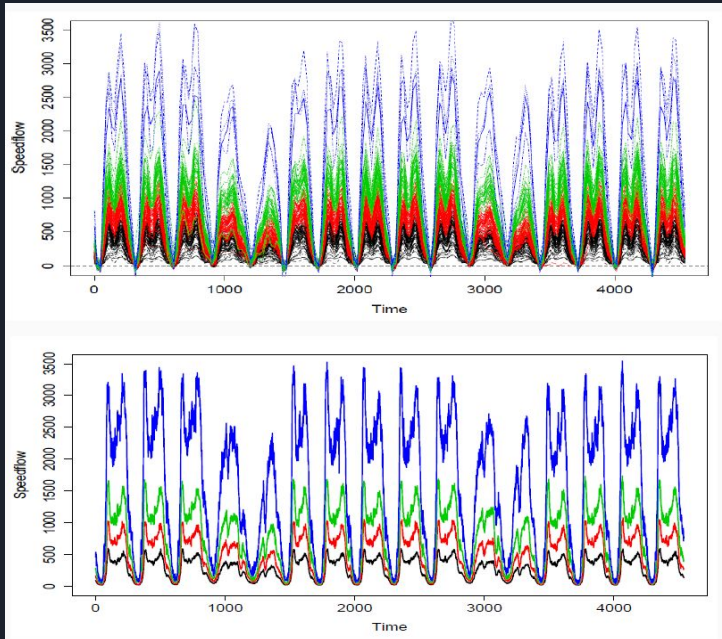


4. Traffic Flow Analysis (Torino)

TMS	LAT	LNG	ROAD_NAME	DIRECTION	SPEEDFLOW	SPEED
2012-10-03 16:15:00	45.067	7.666	Corso regina margherita	positive	720	17.27
2012-10-03 6:15:00	45.015	7.668	Corso Vercelli	negative	864	36.25
2012-10-03 16:15:00	45.077	7.67	Corso Tortona	negative	780	52.43
....			



4. Traffic Flow Analysis (Torino)





Example

```
library(sp)
library(rgdal)
```

```
data(eberg)
coordinates(eberg) <- ~X+Y
proj4string(eberg) <- CRS("+init=epsg:31467")
names(eberg)
eberg <- eberg[runif(nrow(eberg))<.1,]
```

```
kml(eberg, labels = CLYMHT_A)
```




Reference

1. [plotKML](#)
2. [spatstat](#)
3. [Leaflet](#)