

GPS data

1. Dataset description

The dataset provided here is an output of the Track & Know project, shared with the scientific community. It is an anonymized dataset of private vehicles.

2. How to download the data

Go to url:

<https://trackandknowproject.eu/file-repository/?eeFolder=Track-and-Know-Datasets%2FFleet-Management-pilot&eeListID=1>

The data are compressed and need to be unzipped.

3. Disclaimer

The dataset, containing anonymous GPS traces of private vehicles, was made accessible by the data owner to the partners of the Track & Know project, for activities relevant to the project. The proprietary dataset is not accessible to the public.

4. Dataset creation process

This dataset is a computed / synthetic set of data from original GPS coordinates. The process followed is:

- The starting, ending points, intermediate parking places of each route are kept.
- GPS coordinates are randomized entirely, irrelevant to the original location
- Timestamps are altered randomly but keeping same timespan between continuous points.
- For each vehicle, no original data are contained in the dataset

5. Content

Data provided in rpt files; tab delimited.

Item	Usage	Type	Format	Unit	Source
vehicle	Vehicle Random Key	String			Custom Generated
utcDate	UTC date of the vehicle	Date	YYYY-MM-DD hh:mi:ss.mmm		GPS Date
longitude	GPS Longitude	Decimal	WGS84	number	GPS sensor
engineStatus	Indicates if vehicle is moving, idling or parked	String	Idling, parked, motion	-	Engine power.
latitude	GPS Latitude	Decimal	WGS84	number	GPS sensor
altitude	GPS Altitude	Int		m	GPS sensor
angle	0..360 (same as 0) degrees, based on 2 consecutive GPS coordinates	Int		degrees	GPS, device
speed	Speed of the vehicle based on GPS	Decimal		km/h	GPS, device
odometer	Distance in meters between 2 consecutive GPS coordinates	Int		m	GPS, device
satellites	Number of satellites seen by the GPS Antenna	Int		number	GPS sensor

6. Sample data

<i>vehicle</i>	<i>engineStatus</i>	<i>localDate</i>	<i>longitude</i>	<i>latitude</i>	<i>altitude</i>	<i>angle</i>	<i>speed</i>	<i>odometer</i>	<i>satellites</i>
2164301	idling	2017-03-20 19:48:57.000	20,692114	38,815497	25	66	0	0	12
2164301	motion	2017-03-20 19:48:58.000	20,692139	38,815507	25	59	8	0	12
2164301	motion	2017-03-20 19:48:59.000	20,692164	38,81552	25	57	9	0	12
2164301	motion	2017-03-20 19:49:00.000	20,69219	38,815534	25	54	10	0	12
2164301	motion	2017-03-20 19:49:01.000	20,692219	38,815549	25	55	10	0	12
2164301	motion	2017-03-20 19:49:02.000	20,692245	38,815564	25	58	10	0	12
2164301	motion	2017-03-20 19:49:03.000	20,692274	38,815577	25	62	10	0	12
2164301	motion	2017-03-20 19:49:04.000	20,692299	38,815592	25	49	9	0	12
2164301	motion	2017-03-20 19:49:05.000	20,692312	38,81561	25	8	9	0	12
2164301	idling	2017-03-20 19:49:06.000	20,692309	38,815634	25	341	3	0	12
2164301	parked	2017-03-20 19:49:07.000	20,692295	38,815649	25	301	0	0	12