As a result of the smartphone era a new set of applications aroused, based on the sensors attached, and the base of our study here is the GPS sensor, which can locate the user location.

The problem of predicting the next location from raw GPS logs needs a preprocessing task, which is identifying the stay points, every stay point consist of minimum number of GPS entries with maximum distance between these entries of some threshold.

(POI), POI can be considered as a (ex. Dressing shop in a mall)

Due to the raise of the location based social networks and the exploiting of GPS sensor we became highly aware of importance of location analysis in urban planning, advertising.

General: This GPS sensor collects enormous amount of data related to the user’s location, these data is the main feature of the so called location based services, social networks attached to the place of the users, for communicating neighbors or to share place experience (foursquare).