

Ex2-project GPS coordinates

In this project we have developed a system that enables the collection of geographic information and the presentation of information in graphical tools.

In this project there are a few main classes: "MyCoords", "Csv2Kml", "MultiCsv", "Data", "Element", "Layer" and "Project".

In this report, we will introduce the main functions that runs in each class:

MyCoords-

In this class we created a number of functions that would calculate distance with which we can do several calculations between vectors like, convert a 3D vector to polar coordinates, convert a polar coordinate to 3D point, adds two vectors together, distance, calculate the vector in meters and calculate the distance, azimuth and elevation.

Csv2kml-

In this class we read a csv file from our computer and convert it to a kml file.

MultiCSV-

In this class we are looking recursively for a csv file.

Data-

In this class we describe each layer and its time.

Element-

This class represents the parameters: mac, ssid, authmode, time and GPS coordinates with which we can perform additional calculations on vectors.

Layer-

In this class we have a collection of elements that we read from a csv file, with which we could create a kml file.

Project-

In this class we use the class Layer to receive multiple layers so we could a kml file.

Or Shemesh & Yaara Goldenberg.