QGCrowd Manual

1. Required Software Environment

The whole program is accomplished in Eclipse IDE for Java Developers, and the version is Mars.2 Release (4.5.2).

2. Import the Whole Project

You should unzip the project.zip first, and then put the folder to your preferred store position. Then, open the eclipse, and import the project to your work station.

3. Generate Worker and Task Datasets

Firstly, you can change the `workerFileName` and `taskFileName` you want them to be (line 19 and line 21). Second, in main function's try loop at line 55 and line 57, you can delete the "//" and then comment other lines. Then, you can execute the project. In your working directory, you can find the synthetic datasets you just generated.

The above procedure generates the worker and task datasets at the same time. In addition, you can also generate a single dataset with just comment one of the two lines.

4. Test the Datasets and Obtain Result

First, you can change the `workerFileName` and `taskFileName` you want to evaluate and perform on (line 19 and line 21). Second, in main function's try loop at line 55 and line 57, you can add the "//" and then remove the comment marks of other lines. Then, you can execute the project. At the end, it will show you the result with the two datasets you input. The result will show the total number of task assignment, the total summation of accuracy and the total distance cost, under different situations that the tasks are assigned with accuracy and without accuracy.

5. Real-world Datasets Input

First, you need to change `RealTaskSetIn`, `RealTaskSetOut`, `RealWorkerSetIn` and `RealWorkerSetOut.` They represent the real-world datasets' filenames and the output filenames you want. Second, you need to comment each line in try loop except `iGEOCrowd.readInTask();` `iGEOCrowd.readInWorker();`. Then you can refer step 4 above to run the projects with real-world datasets.