Readme

Beijing.py contains some of the main programs covered in the publication, specifically functions such as resilience levels, vulnerability levels, Voronoi diagrams, etc., for three different networks.

Beijing.csv, as the main data of the subway network of the main program, contains the running time and route of each subway in Beijing.

The main data of the bus network in gongjiao.csv is used as the main program, which contains the running time and routes of all the buses in Beijing.

The fuhe.csv, as the main data of the main program composite network, contains the running time as well as the running route of the Beijing composite network.

Beijing\_voronoi\_diagram.png is a voronoi diagram generated by the main program when it is running, and you can change the main program settings to realize the voronoi diagram of different networks.

cuiruoxing1.png, cuiruoxing2.png, cuiruoxing3.png are the vulnerability images of different networks generated by the main program at runtime, and different drawings are realized by changing the settings of the main program.

tanxing1.png, tanxing2.png, tanxing3.png are elastic images of different networks generated by the main program at runtime, and different drawings are realized by changing the main program settings.

keliuliang.py and keliuliang2.py are the contents of the program for counting the passenger flow in the Beijing transportation system, which can calculate the passenger flow level under different networks.