CE 650c Project

Title: Big data analysis in the application of the vehicle route selection

In the urban area, the congestion is a serious problem which is hard to solve, especially in Beijing of China. In my hometown, Inner Mongolia of China, the taxi drives use interphone to tell each other which routes are congested while which routes are clear.

First, we can gather the traffic information of the entire city, like speed, position, weather, routes distribution, and so on. To realizing this step, the route sensors and CCTV camera will be used. Then the large data is collected to cluster, and we can analysis the whole data by computers to help each drive to select the best way to arrive destination. In order to process this goal, we also need to set up an application which can be used by people’s cell phones. However, except developing an application, there are multiple choices. In addition, by analyzing these data, we can arrange the traffic signal time in a more appropriate way to maximize utilization. Below is my initial rough diagram.

