ABSTRACT

Nowadays, information and technologies have become the most important part in our daily life. The fastest growing direction of the information and technology industry is the mobile Internet. Putting the Internet in the mobile devices is one technology step that can change our life style. By personal devices, the Internet users can get to the worldwide information from anywhere, anytime and anyhow. New wireless networks provide many services and applications for mobile users.

The mobile digital map is one of the service types on mobile network. It has the ability to search the map (such as the travel map) although the users are on the way or in the car. By combining digital map information and WAP technology we can offer travel map service on the mobile phone. However, wireless network presents information with strong restrictions because of the limitations of mobile phones and low bandwidth of the wireless network.

In this thesis, I will present the travel map service on the mobile devices, the technique to solve the limitation of WAP and how can the server generate vector map and present the output map a on low memory browser.

The conclusion was the main advantages that I got from combining vector digital map, travel information and WAP. The result of this thesis may open up the creation of geographic information system for the tourism industry in the future.