

Chitanant Chitanont 2014: Development of Decision Support System for Delivery Vehicle Routing Planning Base on Web Mapping Technology. Master of Engineering (Industrial Engineering), Major Field: Industrial Engineering, Department of Industrial Engineering. Thesis Advisor: Assistant Professor Pornthep Anussornnitisarn, Ph.D. 162 pages.

Nowadays, the competition among businesses, especially among small businesses is very high. An effective transportation management system will be able to reduce the expenses and increase the value added even if it develops the potential of business competition. The electronic map technology is modern. Moreover, users can use it for free extensively. These reasons make the researchers propose the idea for generating the tool which utilizes the electronic map to manage the transportation system. In others words, the distance and time from the real route on the electronic map for resolving the vehicle rout management problem causing the result from the calculation to be more accurate. The tool which is able to solve the problem of the managing vehicle route such as Traveling Salesman Problem, Capacitated Vehicle Routing Problem and Vehicle Routing Problem with Time Windows can give the optimal solution to these problems. Moreover, Users can download this program to use and develop their own algorithm for usefulness in the future.

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Student's signature

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Thesis Advisor's signature