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The objective of this study was to further develop the software application for transportation scheduling analysis, selecting set of optimum cost route for on-time delivery and show delivery information in various digital map formats. This developed decision support system was the cooperation between Heuristic Approach and Geographic Information System (GIS) involving on two analytical steps. Firstly, Transportation Scheduling Analysis using Heuristic Approach was mainly by means of the limited number of vehicles on hand, vehicle capacity, total demanded quantity for products and delivery time frame of customers. Secondly, the analysis of optimum cost route for on-time delivery was exercised using GIS techniques. Results comparison generated from the decision support system and the original transportation scheduling system revealed that the decision support system were more consistent with the real situation and could reduce the operating cost.

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Student's signature .....

Thesis Advisor's signature .....