

The application of heuristics for constructing a vehicle route to deliver sandwiches
to convenience stores.

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ABSTRACT

This Project involves the application of heuristics for constructing a vehicle route to deliver sandwiches to convenience stores. We have applied Basic Nearest Neighbor Heuristic, Saving Algorithm, LINGO program and the least total distance method proposed by the proposed method called least total distance to solve for the transport route. The computational results show that Saving Algorithm, LINGO program gives a shorter route than the current one. The Saving Algorithm provides the total distance of 4.37 kilometers, with the total cost of 640.75 Baht/year. For application of the LINGO program, the total distance is 12.42 kilometers, with the total cost of 1,929.29 Baht/year. While Basic Nearest Neighbor Heuristic, the least total distance method cannot reduce the total distance. The Basic Nearest Neighbor Heuristic provides the total distance of 102.7 kilometers, 4.091 kilometers larger than the current total distance and the least total distance method provides the total distance of 104.449 kilometers, 5.84 kilometers larger than the current total distance.