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Transportation of Goods in Japan National Railways and Application of Linear Programming

Toshiyuki WATANABE*

In recent years, the development of mathematical method to solve many problems is very remarkable.

These methods, using computer, have been improved day by day with a number of researchers in the world.

The purpose of this report is, using the computer and many real data, to solve the shortest route of the network problem by "Linear Programming" technique.

The network is the railways of Japan National Railways in Hokkaido, and real data is real running time among the yard of freight trains.

Used method called "Fanning out" method, was reported by Bellman, Moore, and Danzig.

In this report, the number of nodes (yards) in the network is 67. and the number of defined routes is 158.

Total computing time is 63 centi-hours. (Used computer, C. D. C., G-20 type, is that of the Railway Technical Research Institute, Japan National Railways.)

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