

油罐車輛派遣決策支援系統建置之個案研究

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摘要

This paper aims to construct a decision support system (DSS), which is helpful in improving the performance of petroleum tank trucks dispatching. This DSS provides several functions, such as order entry, truck dispatching, fleet management, and friendly interface. We built a mathematical programming model and designed an effective heuristic method to dispatch trucks under two objectives: minimizing the overall mileages of contracted fleet, and minimizing the difference of mileages between private fleet. The computational results of five real-world scenarios implied that our heuristic performs significantly superior to the original dispatching results in both objectives.

關鍵字：Truck Dispatching, Decision Support System (DSS), Heuristic Method