

利用車輛自動監控系統資料評估貨車司機行徑績效之研究

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摘要

Since it is very difficult to evaluate drivers' performance outside the company, we proposed several driver routing performance indices to help trucking company managers evaluate their drivers. In addition, a driver routing performance evaluation system was developed by using Automatic Vehicle Location (AVL) system data. In this system, we especially developed a model to judge whether the routing, stop locations, stop frequency, and stop durations of each trip for each driver are reasonable. Due to the limitation of data accuracy obtained from the Global Positioning System and the scarcity of location data for new customer orders, we proposed several methods to increase the evaluation accuracy of driver performance. Real world operational data for three months of a private trucking company in Taiwan was analyzed by the system. The results indicate that the loss of this company due to the poor performance of drivers in the worst 1/3 is NT\$6 ~ NT\$10 thousand dollars per driver per month. The proposed system can help the trucking company evaluate its drivers accurately as well as reduce its operating costs.

關鍵字：Logistics, Performance evaluation, Automatic vehicle location