

考量回程檢收之車輛途程問題研究

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摘要

本研究即針對車輛途程問題考量回程檢收的特性，同時考量派送及檢收顧客的需求問題加以研究，並擴充其問題特性包含多車種問題的考量，成為一FSMVRPB問題，並撰寫啟發式演算法利用動態記憶體之禁忌搜尋法求解此一問題得一最適解，第一階段利用最近鄰點法產生一起始解，並以禁忌搜尋法為主體，採用動態之禁忌名單，針對此一問題加以求解、分析。以本研究方法針對國際例題幾個單車種問題求解，皆有不錯的表現，並優於之前國內學者的研究結果並且不僅可解決單車種問題且可求解多車種車輛途程問題包含配送或是包含配送及檢收情況之車輛途程問題，並在多車種的問題考量下包含油料成本及車輛數的限制亦可解決物流業者短期規劃或是長期規劃問題。

關鍵詞：禁忌搜尋法；多車種回程檢收車輛途程問題；動態記憶體

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