

# 考慮回程檢收之設施位址 - 車輛途程問題演算法之研究

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## 摘要

由於傳統設施區位-車輛途程問題應用範圍非常的廣泛但過去之研究並沒有考慮回程取貨方面之問題，如此將平白浪費了派車及運輸成本，而且與實際情況不符。本研究將針對此點而發展一可考慮回程檢收之設施區位-車輛途程問題之啟發式演算法以改正其缺點。由於考慮回程檢收之設施區位-車輛途程問題乃以傳統之設施區位-車輛途程問題為基礎，所以本研究將會先發展一優良之傳統型設施區位-車輛途程問題演算法，再以此為基礎整合車輛途程含回程取貨問題發展一可考量回程檢收之設施區位-車輛途程問題的啟發式演算法。本研究採用白俊偉[1]之將區位-途程問題分為三部份：(1)設施區位問題、(2)車輛途程問題及(3)途程重新指派問題為基礎發展傳統型之區位-途程問題演算法，並與過去文獻結果做一比較。進而將其中第二部份之車輛途程問題改為徐俊誠[6]之改良型車輛途程含回程取貨問題整合成為可考量回程取貨之區位-途程問題之啟發式演算法。本演算法具有可同時處理送貨及取貨需求且沒有傳統先送貨後取貨順序之限制，將更能符合實情。

關鍵詞：設施區位-車輛途程問題、設施區位問題、車輛途程問題。

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