## APPLICATION OF HYBRID META-HEURISTIC METHOD ON THE MULTI-TEMPERATURE CO-DELIVERY ROUTING 卓裕仁,曾俞寧 Transportation Technology and Logistics Management Management m9203001@chu.edu.tw

## Abstract

This study proposed a model named as the Hybrid Multi-temperature Codelivery Vehicle Routing Problem (HMCVRP), and designed a RASTA (Ranked Ant System with Threshold Accepting) procedure that combined the neighborhood search methods with threshold accepting algorithm into a scheme of the ASrank algorithm to solve the HMCVRP. In order to identify the feasibility of RASTA, a bank of 30 instances was generated and five experiments were conducted to analyze the computational performance. Computational results shown that the proposed RASTA can solve the HMCVRP effectively.

Keyword: Cold-chain logistics; Multi-temperature co-delivery; Ranked ant system algorithm; Threshold accepting algorithm.