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Author Ya-Yin Cheng
Author's Email Address No Public.
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Abstract

For reaching the diverse demand of customers, 3C(computer、communication、consumer electronics) products retails need strong logistics supports from the 3C intermediaries. In order to provide better service, the 3C intermediaries have to consider the physical attributes and the repairing/recycling requirement of 3C products when they design the pick up and delivery routes. This research makes an attempt to explore the nature of practical logistics operations of 3C intermediaries, also an optimization model will be formulated to assist the designing of service routes of 3C intermediaries. According to the preliminary study, the service routes design problem of 3C intermediaries can be viewed as a multi-commodity network design problem which takes both the vehicle flows and commodity flows into account. The mathematical programming model will be modified as well as evaluated by some test cases. Furthermore, a real-world case appreciation of this model will be studied.
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