

Abstract

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E-waste Reverse logistic Optimization in Egypt

Recently, the level of electronic waste (e-waste) is increasing especially in Egypt due to rapid technology change, and the increase in the consumption of electronic products. This paper proposed a reverse logistics network model for e-waste products that is solved by Genetic algorithm (GA), which aims to minimize the total cost and considering the collection cost, installation cost of sorting, repairing and recycling facilities, processing capacity, as well as the transportation between different facilities. The proposed model could help determine the optimal facility location and the material flows in the network.