An Efficient Method Solving Newspaper Delivery Problem

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Abstract

In this paper we study newspaper delivery problem occurred in a major press company in Korea. Newspapers are to be delivered to local distribution centers in time from several main distribution centers. The problem is a very complicated one which combines set partitioning, multi-vehicle routing with time window, and scheduling problems. We divide the whole problem into two stages and develop some efficient heuristic method combined with simulated annealing algorithm. The validity of our method is demonstrated by a numerical example.