Clarke-Wright Heuristic Extended for the Routing Problem on an Arbitrary Network

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ABSTRACT

The Clarke-Wright heuristic works on a very simple routing network where there is only one vehicle dispatching station and multiple pick-up stations among which all possible pairs of stations have direct connections. This heuristic is extended for the case where each pair of pick-up stations is connected through a complicated network. This extended heuristic uses an optimal algorithm for finding the shortest path between all possible pairs of pick-up stations. Results of computational experiment are to be discussed.