The pickup and delivery problem with cross-docking opportunity

In this paper, we consider the pickup and delivery problem with cross-docking opportunity (PDPCD). The problem arises from an industry application, and includes pickup requests, delivery requests, and pickup-and-delivery requests. Each pickup-and-delivery request can be served either as direct delivery by one truck, or by being picked up and transported to the cross-dock by one vehicle, and subsequently delivered at its final destination by another vehicle. Handling times at customers sites and terminal are given. A typical daily instance includes 500-1,000 requests. We solve the problem using a Large Neighborhood Search (LNS) approach. © 2011 Springer-Verlag.

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