

Mathematical programming formulations and metaheuristics for biological sample transportation problems in healthcare

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Abstract

In this paper, a problem arising from a real-world healthcare application is addressed, dealing with the transportation of biological samples from blood draw centers to a main laboratory. The problem can be modeled as a Vehicle Routing Problem with time-windows and samples lifetime constraints, in which transfers and multiple visits at specific nodes (i.e., the spokes) are allowed to get extra lifetimes of the samples. Mixed Integer Linear Programming formulations and *Hybrid Adaptive Large Neighborhood Search (H-ALNS)* algorithms have been developed for the

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