

## Combining Heuristic And Exact Methods To Solve The Vehicle

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### Combining Heuristic And Exact Methods

Holborn P.L., Thompson J.M., Lewis R. (2012) Combining Heuristic and Exact Methods to Solve the Vehicle Routing Problem with Pickups, Deliveries and Time Windows. In: Hao JK., Middendorf M. (eds) Evolutionary Computation in Combinatorial Optimization. EvoCOP 2012. Lecture Notes in Computer Science, vol 7245. Springer, Berlin, Heidelberg

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Combinations of Exact Algorithms and Metaheuristics Fig.1. Major classification of exact/metaheuristic combinations. Recently there have been very different attempts to combine ideas and methods from these two scientific streams. Dumitrescu and Stutzle [13] describe existing

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We present a new approach, using an iterative improvement heuristic combined with an LP solver to solve this problem. The solution method presented consists of two parts. The iterative improvement heuristic is used to solve the combinatorial problem of finding the vessel routes and an LP model is used to find time for calls and quantity to load or discharge.

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Combining exact and heuristic search techniques, a key characteristic of our approach, has received quite a bit of attention in recent years, see for example De Franceschi et al. (2006), Schmid et al. (2008), Archetti et al. (2008), and Savelsbergh and Song (2008).

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Note that Step 4 in the heuristic is motivated by a combination of the exact algorithm for  $a=1$  discussed in Section 3.1 and the exact algorithm for the general case discussed in Section 3.2. In Section 4 we will show how different choices in Steps 4 and 6 impact the efficiency and efficacy of the heuristic, and also explore multistart implementations of the heuristic.

### **Exact and heuristic methods for a class of selective ...**

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Exact algorithm outperforms similar method which uses other formulation. • Meta-heuristic outperforms state-of-the-art methods on several problem variants. Abstract. Dial-a-ride problems are concerned with the design of efficient vehicle routes for transporting individual persons from specific origin to specific destination locations.

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