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Combining heuristic and exact methods to solve the Vehicle Routing problem with pickups, deliveries and time windows
Penny L. Holborn, Jonathan M. Thompson, and Rhyd Lewis School of Mathematics, Cardiff University, Cardiff, Wales, UK
{holbornpl}@Cardiff.ac.uk Abstract. The vehicle routing problem with pickups, deliveries and

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The vehicle routing problem with pickups, deliveries and time windows (PDPTW) is an important member in the class of vehicle routing problems. In this paper a general heuristic to construct an initial feasible solution is proposed and compared with other construction methods. New route reconstruction heuristics are then shown to improve on this.

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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.

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Also, an exact method can be run for a very long time to obtain optimal solutions (at least to some instances of a problem class), and these optimal solutions can be used in the learning approach called target analysis (Glover, 1990, Glover and Laguna, 1997) as a way to produce improved decision rules for both metaheuristics and exact methods. The result of combining a metaheuristic and an exact method does not necessarily have to be a heuristic method.

Metaheuristics - Scholarpedia

Recently a new class of hybrid procedures, that combine local search based (meta) heuristics and exact algorithms of the operations research field, have been designed to find solutions for combinatorial optimisation problems. Fernandes and Lourenço [1] designated these methods by Optimised Search Heuristics (OSH).

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Combining Exact Methods and Heuristics The combination of exact and heuristic methods is as old as mathematical programming (MP) itself, because usually exact methods cannot work properly without a good bound on the optimal cost, which... Combining Exact Methods and Heuristics | Request PDF Holborn P.L., Thompson J.M., Lewis R. (2012) Combining Heuristic

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To overcome the situation described above, hybrid methods that combine heuristics and exact methods to solve optimisation problems have been proposed. These methods, also known as matheuristics , have been shown to perform better than both heuristic and mathematical programming methods when they are applied separately. The idea of combining the power of mathematical programming with flexibility of heuristics has gained attention within researchers' community.

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