

Rich Vehicle Routing Problem Instances

This document describes a large set of 4800 Benchmark Problem Instances and an Object-Oriented Model for the Rich Vehicle Routing Problem. Each problem instance is provided as an XML file and the problem Model is defined using the Xml Schema Definition language.

Definition

The following zip archives contain 4800 benchmark rich vehicle routing problem instances in XML format, an object oriented model defined using the xml schema definition language, an XML parser written in Java that eases the use of the archives and documentation describing the model / file formats and the problem generation process.

A single archive containing all files is available at <http://rollproject.org/rvrp/AllFiles.zip>. A pdf describing files the problem generation process is available at <http://www.idi.napier.ac.uk/c/publications/publicationid/13383109>

These problem instances were used in the following publications.

Sim, K., Hart, E., Urquhart, N., Pigden, T. (2015). *A new rich vehicle routing problem model and benchmark resource*. In: Proceedings of the The 11th edition of the International Conference on Evolutionary and Deterministic Methods for Design, Optimization and Control with Applications to Industrial and Societal Problems (EUROGEN 2015).

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