

New developments in Integrative Cooperative Search for rich vehicle routing problems

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At the last COLLAB workshop, we have presented ICS, a generic multi-thread cooperative search framework for rich combinatorial optimization problems, and showed how it could be applied to rich vehicle routing problems. In this talk, we discuss new features recently developed or currently under development for use in the ICS framework. These include in particular a very effective Hybrid Genetic Algorithm capable of tackling VRPs with multiple periods and multiple depots, new procedures for merging solutions (“integrators”), and some multi-objective functionalities.

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