

VORTRAG

EasyLocal Ecosystem: a set of tools for easing the development and the analysis of local search algorithm

Luca Di Gaspero, PhD
DIEGM, Universita' di Udine

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BWZ Brünner Straße 72
1210 Wien

Abstract:

Easy Local++ is an object-oriented framework that can be used as a general tool for the development of local search algorithms in C++. The basic idea of EasyLocal++ is to capture the essential features of most local search metaheuristics, and their possible compositions, allowing the user to address the design and implementation issues of local search algorithms for a given problem in a more principled way.

During the years the *Ecosystem* of EasyLocal++ has grown by including different components for developing innovative metaheuristics and easing the debugging and the analysis of the developed algorithms. The use of such a system will give the user a set of out-of-the-box algorithms and techniques for fast prototyping of local search metaheuristics.

In the presentation, an overview of the EasyLocal++ architecture will be given along with a full case study regarding the development, debugging, and analysis of a family of local search algorithms for a combinatorial optimization problem.