

13th EUROPT Workshop on Advances in Continuous Optimization

Author

Christian Günther

Martin Luther University Halle-Wittenberg
Faculty of Natural Sciences II
Institute for Mathematics
Working Group Optimization and Stochastics
06099 Halle (Saale), Germany

Title

FLO – A tool for solving multi-objective location problems

Abstract

Project FLO (Facility Location Optimizer) aims at providing a MATLAB-based tool for solving multi-objective as well as single-objective location problems. We will present algorithms and features of the current version of the Software FLO. The classical single-facility multi-objective location problem consists in minimizing the distances between a new facility and a finite number of given facilities in the plane simultaneously. In this talk, we focus on location problems with uncertainties in the data and present results concerning computing the set of robust efficient solutions for special classes of multi-objective location problems with uncertainties in the data. At the end of the talk, we give an overview of expected future development steps of the Software FLO.