Accepted Manuscript

A Hybrid Genetic Algorithm with Decomposition Phases for the Unequal Area Facility Layout Problem

Frederico Galaxe Paes, Artur Alves Pessoa, Thibaut Vidal

PII: S0377-2217(16)30559-8
DOI: 10.1016/j.ejor.2016.07.022
Reference: EOR 13848

To appear in: *European Journal of Operational Research*

Received date: 22 October 2015
Revised date: 10 June 2016
Accepted date: 11 July 2016

Please cite this article as: Frederico Galaxe Paes, Artur Alves Pessoa, Thibaut Vidal, A Hybrid Genetic Algorithm with Decomposition Phases for the Unequal Area Facility Layout Problem, *European Journal of Operational Research* (2016), doi: 10.1016/j.ejor.2016.07.022

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

ACCEPTED MANUSCRIPT

Highlights

- We consider the unequal area facility location problem with soft or hard dimensions.
- We introduce two efficient hybrid genetic algorithms.
- We use a decomposition strategy with partial solution deconstructions and reconstructions.
- Structural constraints are imposed on the solutions to enhance the decomposition phases.
- Solutions of excellent quality are obtained for medium- and large-scale instances.

ACCEPTED MANUSCRIPT

Download English Version:

https://daneshyari.com/en/article/4960151

Download Persian Version:

https://daneshyari.com/article/4960151

Daneshyari.com