OTTO VON GUERICKE UNIVERSITÄT MAGDEBURG

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This page contains material of the following publication:

Neidlein, V.; Vianna, A.C.G.; Arenales, M.N.; Wäscher, G. (2008):
The Two-Dimensional, Rectangular, Guillotineable-Layout Cutting Problem with a Single Defect - An AND/OR-Graph Approach. ›
Working Paper No. 35/2008, Faculty of Economics and Management, Otto von Guericke University Magdeburg.

Abstract: In this paper, a two-dimensional cutting problem is considered in which a single plate (large object) has to be cut down into a set of small items of maximal value. As opposed to standard cutting problems, the large object contains a defect, which m not be covered by a small item. The problem is represented by means of an AND/OR-graph, and a Branch & Bound procedure (including heuristic modifications for speeding up the search process) is introduced for its exact solution. The proposed method i evaluated in a series of numerical experiments that are run on problem instances taken from the literature, as well as on random generated instances.

This file contains the description of the data files.

› Description

This file contains the test problems.

› Test Problems

This file contains the defects for the test problems.

› Test Problems

Materials
- ▸ 2019
- ▸ 2017 / III.
- ▸ 2017 / II.
- ▸ 2017 / I.
- ▸ 2016 / III.
- ▸ 2016 / II.
- ▸ 2016 / I.
- ▸ 2015 / III.
- 2015 / II.
- ▸ 2015 / I.

- 2014
- 2012 / I.
- 2007 / II.
- 2004 / I.
- 2003 / I.