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MIP models and matheuristics for the unrelated parallel machine scheduling problem with additional resources

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PII: S0377-2217(17)30007-3
DOI: 10.1016/j.ejor.2017.01.002
Reference: EOR 14183

To appear in: *European Journal of Operational Research*

Received date: 17 May 2016
Revised date: 14 November 2016
Accepted date: 2 January 2017

Please cite this article as: Luis Fanjul-Peyro, Federico Perea, Rubén Ruiz, MIP models and matheuristics for the unrelated parallel machine scheduling problem with additional resources, *European Journal of Operational Research* (2017), doi: 10.1016/j.ejor.2017.01.002

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Highlights

- The problem of unrelated parallel machines with an additional resource is considered.
- Two mathematical models are proposed: one adapted from the literature, an original one based on strip packing.
- Three matheuristic strategies are proposed.
- A comprehensive computational and statistical evaluation is carried out.
- The model based on strip packing is shown to outperform the model adapted from the literature.
- Matheuristic strategies are able to solve larger problems more efficiently and effectively.

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