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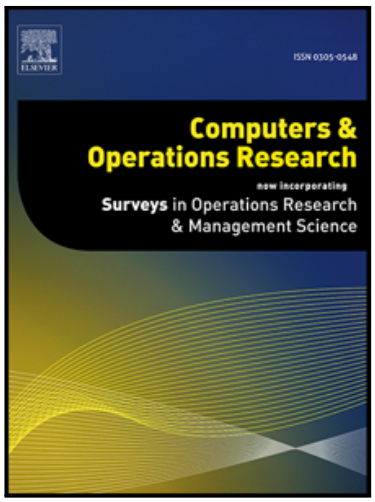

Bi-objective scheduling on a restricted batching machine

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PII: S0305-0548(18)30188-6
DOI: 10.1016/j.cor.2018.07.004
Reference: CAOR 4511

To appear in: *Computers and Operations Research*

Received date: 24 August 2017
Revised date: 5 June 2018
Accepted date: 4 July 2018

Please cite this article as: Marta Cabo, José Luis González-Velarde, Edgar Possani, Yasmín Á. Ríos Solís, Bi-objective scheduling on a restricted batching machine, *Computers and Operations Research* (2018), doi: 10.1016/j.cor.2018.07.004

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Highlights

- We tackle the bi-objective single p-batching machine problem of minimizing maximum lateness and number of jobs with a restricted batch size.
- We applied an epsilon-constraint method and develop new mathematical models that are enhanced with a family of valid inequalities and constraints that avoid symmetric solutions.
- We find Pareto-optimal solutions in reasonable times for up to 50 jobs.
- We develop a BRKGA for larger instances of up to 100 jobs with good results with smaller computational times than the exact methods.

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