

Accepted Manuscript

Scheduling flexible job-shops with transportation times: mathematical models and a hybrid imperialist competitive algorithm

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PII: S0307-904X(16)30492-9
DOI: [10.1016/j.apm.2016.09.022](https://doi.org/10.1016/j.apm.2016.09.022)
Reference: APM 11353



To appear in: *Applied Mathematical Modelling*

Received date: 28 December 2013
Revised date: 22 August 2016
Accepted date: 15 September 2016

Please cite this article as: Sajad Karimi , Zaniar Ardalan , B. Naderi , M. Mohammadi , Scheduling flexible job-shops with transportation times: mathematical models and a hybrid imperialist competitive algorithm, *Applied Mathematical Modelling* (2016), doi: [10.1016/j.apm.2016.09.022](https://doi.org/10.1016/j.apm.2016.09.022)

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Highlights

- Transportation time incorporate in flexible job shop scheduling.
- We mathematically formulate the problem by two mixed integer linear programming models.
- We propose a novel imperialist competitive algorithm hybridized by a simulated annealing.
- The proposed algorithm is evaluated by comparing against two high performing algorithms.

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