

## Accepted Manuscript

Title: Modelling and scheduling multi-objective flow shop problems with interfering jobs

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PII: S1568-4946(16)30670-6  
DOI: <http://dx.doi.org/doi:10.1016/j.asoc.2016.12.041>  
Reference: ASOC 3980

To appear in: *Applied Soft Computing*

Received date: 17-11-2015  
Revised date: 3-11-2016  
Accepted date: 22-12-2016

Please cite this article as: M.Torkashvand, B.Naderi, S.A.Hosseini, Modelling and scheduling multi-objective flow shop problems with interfering jobs, Applied Soft Computing Journal <http://dx.doi.org/10.1016/j.asoc.2016.12.041>

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# Modelling and scheduling multi-objective flow shop problems with interfering jobs

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*Graphical abstract*

**Procedure:** Multi-objective bio-geography based optimization

*Initialization mechanism*

**While** termination criterion is not met **do**

*Elitism operator*

*Rate calculation mechanism*

*Migration mechanism*

*Perturbation mechanism*

**Endwhile**

*Highlights*

1. This paper considers multi-objective flow shops with interfering jobs.
2. The problem is modeled by a mixed integer linear program.
3. A novel biogeography-based optimization is proposed.
4. The performance is compared with three well-known algorithms.

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