

Accepted Manuscript

A shuffled multi-swarm micro-migrating birds optimizer for a multi-resource-constrained flexible job shop scheduling problem

Liang Gao , Quan-Ke Pan

PII: S0020-0255(16)30617-X
DOI: [10.1016/j.ins.2016.08.046](https://doi.org/10.1016/j.ins.2016.08.046)
Reference: INS 12449



To appear in: *Information Sciences*

Received date: 17 July 2015
Revised date: 30 July 2016
Accepted date: 14 August 2016

Please cite this article as: Liang Gao , Quan-Ke Pan , A shuffled multi-swarm micro-migrating birds optimizer for a multi-resource-constrained flexible job shop scheduling problem, *Information Sciences* (2016), doi: [10.1016/j.ins.2016.08.046](https://doi.org/10.1016/j.ins.2016.08.046)

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Highlights

- This paper addresses a multi-resource-constrained flexible job shop scheduling problem with makespan criterion.
- A dynamic shuffled multi-swarm micro-migrating birds optimizer (MBO) is proposed.
- Advanced technologies including micro-MBO, multi-swarm parallel search, random shuffle process, diversity controlling strategy, and adaptive search operator are introduced.
- The proposed algorithm outperforms the existing state-of-art algorithms in terms of solution quality and computational efforts.
- 9 out of 10 best known solutions for the benchmarks in the literature are improved.

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