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

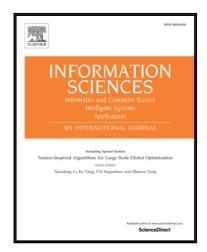
Liang Gao, Quan-Ke Pan

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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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