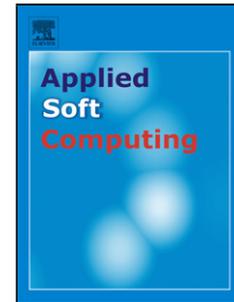


## Accepted Manuscript

Title: An Effective Modified Migrating Birds Optimization for Hybrid Flowshop Scheduling Problem with Lot Streaming

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### Highlights

1. The problem of hybrid flowshop hybridizing with lot streaming is addressed with the assumption that sublots of different jobs are not allowed to be intermingled.
2. A so-called shortest waiting time rule is introduced to schedule the jobs concurrently arriving at stages more reasonably.
3. A combined neighborhood search strategy unites the insertion and pairwise exchange operators during evolution
4. Two competitive mechanisms are respectively used to increase the probability of locating better solutions at the front of the flock and enhance the interaction between two lines.
5. The scout phase on the basis of the Glover operator and a well-designed local search is applied to help the individuals escape from local optimums.
6. The dynamic solution acceptance criteria is developed to strike a compromise between intensification and diversification mechanisms.

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