

## Accepted Manuscript

Flow shop learning effect scheduling problem with release dates

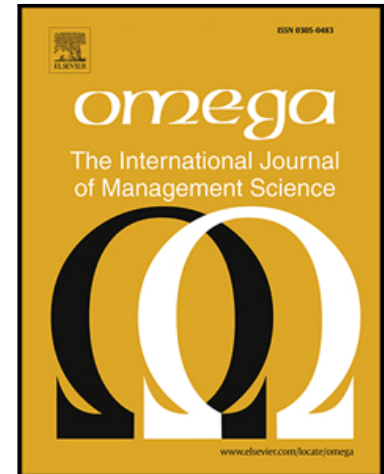
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**Highlights:**

- Flow shop learning effect scheduling is addressed with release date consideration.
- Definition of preemption is presented for the learning effect scheduling model.
- A branch and bound algorithm is proposed with an efficient branching rule.
- Asymptotic optimality is proven for a class of SPTA-based heuristics.

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