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Order picking with multiple pickers and due dates –Simultaneous solution of order batching, batch assignment and sequencing, and picker routing problems

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Highlights

- We consider the Joint Order Batching, Assignment, Sequencing and Routing Problem.
- We suggest a new mathematical programming formulation to this problem.
- We propose a variable neighborhood descent able to deal with large instances.
- We conduct numerical experiments to evaluate the performance of our approach.
- We investigate the benefit from solving the subproblems as a holistic problem.

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