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Novel time-space network flow formulation and approximate dynamic programming approach for the crane scheduling in a coil warehouse

Yuan Yuan , Lixin Tang

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Highlights

- We study a crane scheduling problem considering coil storage and retrieval.
- We propose an efficient novel time-space network flow model for the problem.
- Variables reduction strategies are presented to accelerate solving the model.
- We design an exact dynamic programming approach based on optimal assignment with cut.
- An approximate dynamic programming algorithm is developed for large-sized instances.

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