Accepted Manuscript

Sequencing dual-spreader crane operations: Mathematical formulation and heuristic algorithm

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PII: S0377-2217(17)30268-0
DOI: 10.1016/j.ejor.2017.03.046
Reference: EOR 14330

To appear in: *European Journal of Operational Research*

Received date: 15 January 2016
Revised date: 7 February 2017
Accepted date: 17 March 2017

Please cite this article as: Shabnam Lashkari, Yong Wu, Matthew E.H. Petering, Sequencing dual-spreader crane operations: Mathematical formulation and heuristic algorithm, *European Journal of Operational Research* (2017), doi: 10.1016/j.ejor.2017.03.046

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Highlights

- We introduce a new crane scheduling problem inspired by the unloading of a containership
- The problem is modeled as a mixed-integer linear program
- We develop a procedure for computing a lower bound on the optimal objective value
- A heuristic method is developed for handling large problem instances
- The heuristic produces solutions within 6% of optimal for all instance categories

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