

Accepted Manuscript

A Heuristic for Emergency Operations Scheduling with Lead Times and Tardiness Penalties

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PII: S0377-2217(15)00912-1
DOI: [10.1016/j.ejor.2015.10.005](https://doi.org/10.1016/j.ejor.2015.10.005)
Reference: EOR 13289



To appear in: *European Journal of Operational Research*

Received date: 10 March 2014
Revised date: 15 September 2015
Accepted date: 4 October 2015

Please cite this article as: Lei Lei , Kangbok Lee , Hui Dong , A Heuristic for Emergency Operations Scheduling with Lead Times and Tardiness Penalties, *European Journal of Operational Research* (2015), doi: [10.1016/j.ejor.2015.10.005](https://doi.org/10.1016/j.ejor.2015.10.005)

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Highlights

- We model an emergency operations scheduling problem with tardiness penalties.
- The lead times (waiting, production and transportation times) are considered.
- Through a structure analysis of the problem, solvable cases are identified.
- A heuristic algorithm based on a mixed integer programming is developed.
- The algorithm runs very fast and has small errors in numerical experiment.

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