Accepted Manuscript

Robust bi-level optimization of relief logistics operations

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PII:S0307-904X(17)30732-1DOI:10.1016/j.apm.2017.12.003Reference:APM 12083

To appear in:

Applied Mathematical Modelling

Received date:18 January 2017Revised date:15 November 2017Accepted date:5 December 2017

Please cite this article as: Abdul Sattar Safaei, Saba Farsad, Mohammad Mahdi Paydar, Robust bi-level optimization of relief logistics operations, *Applied Mathematical Modelling* (2017), doi: 10.1016/j.apm.2017.12.003

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Highlightes

- A hierarchical decision processes with two levels of decision as a robust bi-level optimization model.
- Addressing both supply risk and relief items demand coverage robustness.
- Optimizing relief operating costs as well as considering penalty cost for unsatisfied victims demand.
- TOPSIS method is employed to identify candidate suppliers with lower risk.

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