Accepted Manuscript

A Model Enhancement Approach for Optimizing the Integrated Shift Scheduling and Vehicle Routing Problem in Waste Collection

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PII: \$0377-2217(17)30790-7 DOI: 10.1016/j.ejor.2017.08.059

Reference: EOR 14678

To appear in: European Journal of Operational Research

Received date: 2 September 2016 Revised date: 29 August 2017 Accepted date: 31 August 2017



Please cite this article as: Philippe De Bruecker, Jeroen Beliën, Liesje De Boeck, Simon De Jaeger, Erik Demeulemeester, A Model Enhancement Approach for Optimizing the Integrated Shift Scheduling and Vehicle Routing Problem in Waste Collection, *European Journal of Operational Research* (2017), doi: 10.1016/j.ejor.2017.08.059

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Highlights

- \bullet An integrated shift scheduling and waste collection routing is studied.
- A model enhancement approach accurately estimates the required collection times.
- The solutions are compared with a practical lower bound based on flexible routes

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