

Accepted Manuscript

Lifted Polynomial Size Formulations for the Homogeneous and Heterogeneous Vehicle Routing Problems

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PII: S0377-2217(17)30486-1
DOI: [10.1016/j.ejor.2017.05.039](https://doi.org/10.1016/j.ejor.2017.05.039)
Reference: EOR 14467



To appear in: *European Journal of Operational Research*

Received date: 6 October 2016
Revised date: 18 May 2017
Accepted date: 19 May 2017

Please cite this article as: Valeria Leggieri, Mohamed Haouari, Lifted Polynomial Size Formulations for the Homogeneous and Heterogeneous Vehicle Routing Problems, *European Journal of Operational Research* (2017), doi: [10.1016/j.ejor.2017.05.039](https://doi.org/10.1016/j.ejor.2017.05.039)

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Highlights

- A compact formulation is derived using the Reformulation-Linearization Technique
- The formulation is shown to be equivalent to the strongest multicommodity formulation
- Polynomial size valid inequalities that improve the model representation are proposed
- A compact model for the heterogeneous fleet vehicle routing problem is derived
- The proposed model is compared with state of the art compact formulations

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