

Accepted Manuscript

Strong multi-commodity flow formulations for the asymmetric traveling salesman problem

Ali Balma, Safa Ben Salem, Mehdi Mrad, Talel Ladhari

PII: S0377-2217(18)30419-3
DOI: [10.1016/j.ejor.2018.05.021](https://doi.org/10.1016/j.ejor.2018.05.021)
Reference: EOR 15134



To appear in: *European Journal of Operational Research*

Received date: 26 August 2017
Revised date: 3 March 2018
Accepted date: 10 May 2018

Please cite this article as: Ali Balma, Safa Ben Salem, Mehdi Mrad, Talel Ladhari, Strong multi-commodity flow formulations for the asymmetric traveling salesman problem, *European Journal of Operational Research* (2018), doi: [10.1016/j.ejor.2018.05.021](https://doi.org/10.1016/j.ejor.2018.05.021)

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Highlights

- Show that the strongest known compact formulations reduce to a more compact model
- Devise a new compact formulation by RLT outperforming the strongest existing models
- The projections of this model into the original space yields other tighter models
- The dominance relationships are stated between the new models and the existing ones
- The proposed models are compared experimentally with existing compact formulations

Download English Version:

<https://daneshyari.com/en/article/6894483>

Download Persian Version:

<https://daneshyari.com/article/6894483>

[Daneshyari.com](https://daneshyari.com)