

## Accepted Manuscript

Genetic Local Search Algorithm for a New Bi-Objective Arc Routing Problem with Profit Collection and Dispersion of Vehicles

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PII: S0957-4174(17)30654-1  
DOI: [10.1016/j.eswa.2017.09.050](https://doi.org/10.1016/j.eswa.2017.09.050)  
Reference: ESWA 11571



To appear in: *Expert Systems With Applications*

Received date: 5 January 2017  
Revised date: 21 September 2017  
Accepted date: 22 September 2017

Please cite this article as: Guilherme Dhein, Olinto César Bassi de Araújo, Ghendy Cardoso Junior, Genetic Local Search Algorithm for a New Bi-Objective Arc Routing Problem with Profit Collection and Dispersion of Vehicles, *Expert Systems With Applications* (2017), doi: [10.1016/j.eswa.2017.09.050](https://doi.org/10.1016/j.eswa.2017.09.050)

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**Highlights**

- The proposed problem has two objectives: profit collection and vehicles dispersion
- Vehicles collect rewards for arcs traversed while traveling scattered in environment
- We propose a Multi-objective Genetic Local Search method to find approximation sets
- It uses specialized chromosome, genetic operators and local search strategy
- Our MOGLS presents better approximation sets than a NSGA II implementation

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