

Accepted Manuscript

Lagrangian relaxation for the directional sensor coverage problem with continuous orientation

Annabella Astorino, Manlio Gaudioso, Giovanna Miglionico

PII: S0305-0483(16)30156-6
DOI: [10.1016/j.omega.2017.03.001](https://doi.org/10.1016/j.omega.2017.03.001)
Reference: OME 1758



To appear in: *Omega*

Received date: 26 April 2016
Revised date: 2 March 2017
Accepted date: 6 March 2017

Please cite this article as: Annabella Astorino, Manlio Gaudioso, Giovanna Miglionico, Lagrangian relaxation for the directional sensor coverage problem with continuous orientation, *Omega* (2017), doi: [10.1016/j.omega.2017.03.001](https://doi.org/10.1016/j.omega.2017.03.001)

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

- MINLP formulation of the directional sensor coverage problem.
- The orientation of each sensor is a continuous variable.
- NP-hardness of the problem is proved.
- Lagrangian relaxation approach is adopted plus ad hoc dual ascent .
- The Lagrangian based heuristics is compared against an exact method.

Download English Version:

<https://daneshyari.com/en/article/7436756>

Download Persian Version:

<https://daneshyari.com/article/7436756>

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