Accepted Manuscript

Lagrangian relaxation for the directional sensor coverage problem with continuous orientation

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 PII:
 S0305-0483(16)30156-6

 DOI:
 10.1016/j.omega.2017.03.001

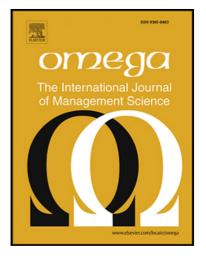
 Reference:
 OME 1758

To appear in: Omega

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

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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.

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