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Lagrangian relaxation for the directional sensor coverage problem with continuous orientation

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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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