

Accepted Manuscript

A Novel Heuristic Algorithm for Node Localization in Anisotropic
Wireless Sensor Networks with Holes

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PII: S0165-1684(17)30092-0
DOI: [10.1016/j.sigpro.2017.03.010](https://doi.org/10.1016/j.sigpro.2017.03.010)
Reference: SIGPRO 6422



To appear in: *Signal Processing*

Received date: 5 September 2016
Revised date: 25 January 2017
Accepted date: 7 March 2017

Please cite this article as: Shi Zhang , Meng Joo Er , Baihai Zhang , Yashar Naderahmadian , A Novel Heuristic Algorithm for Node Localization in Anisotropic Wireless Sensor Networks with Holes, *Signal Processing* (2017), doi: [10.1016/j.sigpro.2017.03.010](https://doi.org/10.1016/j.sigpro.2017.03.010)

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Highlights

- The Heuristic Multidimensional Scaling (HMDS) algorithm is proposed.
- The HMDS algorithm explores the virtual node and constructs the shortest path.
- By applying the heuristic approach, accurate Euclidean distance is achieved.
- The HMDS algorithm can obtain the locations of the nodes in anisotropic WSNs with holes.
- The HMDS algorithm reduces the complexity compared with the MDS-MAP algorithm.

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