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

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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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