

# **GPS Free Node Localization in Mobile Wireless Sensor Networks**

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# Background

## Purpose of Localization Schemes

- Optimized or maintained connectivity
- Coordination for node tasks

## Localization can require GPS

- GPS signal not always available
- Indoors, GPS unreliable

## Fixed Point reference nodes

- Use of beacons
- Static network

# Paper Contributions

"The main contribution of this work is that it presents a solution to the problem of directional localization in GPS free sensor networks with mobile nodes."

- Provides directional neighbor localization in a network-wide coordinate system
- Works under fairly large motion and distance measurement errors
- Unaffected by the speed of nodes
- Works for any network size
- Supports a stable network in mobility problems