

## **LOCALISATION IN WAREHOUSE MONITORING WIRELESS SENSOR NETWORKS**

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### **Abstract**

According to the characteristic of wireless sensor networks (WSN), it can be used in warehouse monitoring. However, there are problems in localization. Existing RSSI-based approaches rely on absolute RSSI values to estimate physical distances. However, RSSI has a larger variation because of fading, shadowing and reflections. By comparing RSSI values of the mobile beacon, we propose an improved RSSI-based approach which can achieve higher accuracy. In this paper, RSSI localization is introduced firstly. Second, we propose a localization algorithm based on the comparison of the mobile beacon node's RSSI. Third, we analyze the algorithm with simulation experiment. Finally, we draw a conclusion.

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**Keywords** : Wireless sensor network, RSSI, localization

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