A Real-Time High-Precision Localization Algorithm for Wireless Sensor Networks

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Abstract

Besides sensing the environment variables, the localization application in Wireless Sensor Networks has became an important research subject. Unlike the other range-free localization scheme's lack of real time performance, we propose a real time algorithm, which determines the location of the object based on changing signal strength dynamically. The simulation results demonstrated our algorithm is more effective and precise in the sense of real time localization scheme.

Keyword：wireless sensor network, range-free, localization, tracking, real-time