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Abstract
Because of the semiconductor advances in microminiaturized technology and micro-electromechanical systems (MEMS), recently researches about Wireless Sensor Network (WSN) are more popular. There are many localization researches about WSN. Many papers discussed about localization method and algorithm. But few researches talk about the implementation of position system.
There are three major methods about the localization of WSN: Time-of-Arrival (TOA), Angle-of-Arrival (AOA), and Received Signal Strength-Indicate (RSSI). Our approach uses RSSI technology.
In this paper we present a prototype system that includes the wireless platform and localization estimate analysis interface. This system can help us to estimate the distance and calculate the position effectively. Experimental results and error analysis show this prototype system is feasible.
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