

Abstract

The prime function of sensor network is to collect sensor data, process that data to enrich that or extract meaningful information from that data and forward that data to destination for further processing or analytics. In most of the cases and applications, it is significant to get information about the location of received data when a large number of adhoc devices involved i.e. IoT devices. Localization technique can be used to extract this type of info in wireless sensor networks (WSNs). An extensive research is afoot in aforementioned area of WSNs. Efforts are focused on to design a cheap, efficient, accessible localization mechanisms for WSNs. In this thesis, my work is to provide details of sensor node architecture and its applications. Moreover, different localization techniques with their pros and cons would also be considered. Further I have done practical implementation of RSSI based localization technique on IoT motes and discussed my findings and results.