

# CALE: A Context-aware Living Environment Based on Zigbee Sensor Network

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## Abstract

The paper employed some independently developed sensors based on the Octopus X platform to build a Zigbee-based Sensor Networks. Also, we implemented a Location-aware living environment by deploying the developed Zigbee-based sensor. Besides, through the created window console interface, the sensed data can be transmitted and transformed to the database for further utilized. Moreover, by the devised Web interface, the update request data can be observed efficiently and responded effectively to any situations.

Keyword : Context-Aware, Zigbee, Wireless Sensor