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(57) Abstract :

ABSTARCT OF THE INVENTION: The deployed sensor network accessibility from far distance has increases day by day. If we consider a given village area surrounded by the forest; where deployment of sensor nodes will be near to the boundary line of forest (BLOF), then, it will be very beneficial if any animal intrusion and fire detection detected form sensor nodes can be accessed by the administrator at the far distance from BLOF in the form of meter to meter updates. The presented above application can be achieved by the Internet of Things (IoT) based layered wireless sensor network (IoT-BLWSN). The IoT-BLWSNs are also useful for restricted (hospital, industrial area, animal cage monitoring in zoo etc) and non restricted areas (college and school campus). Data transmission form layers to the cloud in the IoT-BLWSNs have been carried out in the recent years for heterogeneous as well as homogenous layered networks. In the heterogeneous layered networks, each sensor nodes within the layer will sense different events. In the proposed system model, we considered heterogeneous based layered sensor networks where, the processing of the data from sensors to the destination will be carried out wirelessly. At the destination end, the received data will be stored into the cloud with the help of Microcontroller Pi3(800). Further, based on the received location information a remotely controlled drone will be sent to the corresponding point from the administrator end in order to visualize the intruder. Also, meter to meter updates for animal intrusion and fire detection will provide a reliable protection layer to the villagers and crops.

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