Industry Specific Inteligent Fire Management System

Problem statement:

Many Hostels are becoming in fire trouble/hazards where the hostellers can loose their belongings/properties and lives. To reduce that problem the system for fire detection and alert in case fire outbreak should be designed and implemented.

The project reduces fire hazards: After designing and implementing the circuit for fire detection and alert in case smoke detected will be the way of reducing fire hazard in DIT hostels. To protect hostellers from injury or death caused by fire. In case of fire outbreak, the system alerts hostellers and collectively to extinguish

Abstract

In this paper, we propose an users friendly intelligent fire alarm management System. Taking into account all the features available in the present model we propose a new model for monitoring fire incidences and reporting them. The features of the proposed model are Effective safety system Systematic approach for monitoring and control. Transferring messages through wireless technologies. Easy way of sensing structural damage and Health monitoring of buildings. Therefore, we are proposing an IOT based wireless fire alarm system which is easy to install. The proposed system is an ad-hoc network that consists of several nodes consists of a microcontroller which is connected to smoke, temperature humidity, flame, methane and carbon monoxide sensors, which is used to sense the environment to detect the present of fire. Once fire is detected by a node, it sends a signal to a centralized node that is triggered to send an SMS to the fire department and alert the user.

Tool Required:
    Python, IOT Application Development, IBM could, IBMwatson

College Mentor: A. Thomas Paul Roy

Industry Mentor: Sowjanya, Sandeep Doodigani