Industry-specific intelligent fire management system

LITERATURE SURVEY

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| PAPER TITLE | AUTHOR | OBJECTIVE/OUTCOME |
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| A Survey of Fire Safety Measures for Industry Safety Using IOT | N. Savitha; S. Malathi 2019 | In the system the fire safety practices is going to implement for the fire crackers industry. In that the root cause for the fire is to be analyzed and prevent from the fire before it is triggered. Through this hazardous fire accidents can be avoided and many lives can be saved. |
| Design of Distributed Factory Fire Alarm Systems | Li Liu ;Yanke C I ; Haosong chen 2020 | The Distributed plant fire alarm system can quickly detect the fire and issues an alarm to reduce the damage caused by the fire. The fire alarm system is a control system that integrates signal detection,transmission , processing and control .lt mainly complete the basic function of Fire ,smoke and temperature module monitering fire. |
| A Microcontroller- based Fire Protection System for the Safety of Industries in Bangladesh | Md. Saiam Dept. of Electrical and Electronic Engineering, Khulna University of Engineering & Technology, Khulna, Bangladesh 2021 | The affected area is also triggered by the fire extinguishing equipment. At the same time, it also notifies the manager and the nearby fire station via SMS. This paper presents a simulation and practical arrangement of the system to demonstrate how it can be implemented as a fire prevention equipment. |

| Safety Robot for Flammable Gas and Fire Detection using Multisensor Technology | Sandeep Prabhakaran; Mathan N | In case of fire accidents, the robot alerts the workstation and sends a mail to the firefighting department with the location read from the GPS module. As the robot works as an autonomous system, it does not need to be controlled remotely. Hence this robot is based on the line following mechanism, it is quite easy to install and can cover a large area efficiently. |
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| Computer Vision Based Industrial and Forest Fire Detection Using Support Vector Machine (SVM) | Md. Abdur Rahman; Sayed Tanimun Hasan; Mohammed Abdul Kader 2022 | The proposed strategy works on a very large dataset of fire videos that have been collected both in real-life situations and from the internet. This SVM pipeline model shows the maximum accuracy is 93.33%. The system can fulfill the precision and detect faster real-time fire detection. It's forest and industrial application will aid in the early detection of fires, as well as emergency management, and so immensely contribute to loss prevention. |

Proposed Method:

The fire management system can be used to assessing and controlling the fire risks.

In our method, we are using the Sensor to predict whether living beings are getting stuck inside the room/place or not. The information will be shared through ETSI (European Telecommunication Standards institute) to the related managements.