LITERATURE SURVEY

S.No	Author/ Publication Year	Title	Methodology	Advantages	Disadvantages
1.	Chen Yueping, Gan Fangcheng 2007	Design and Realization of Fire Alarm System Based on CAN Bus	In this fire alarm and monitoring system, intelligent and multi-sensor fire detectors and interface boards of CAN bus communication are considered as key core. Intelligent and multi-sensor fire detector is design by used microprocessor. Multi-fire detector is connected to CAN bus with communication interface boards of CAN.	Its primary goal was to enable faster communication between electronic devices and modules in vehicles while reducing the amount of wiring (and the amount of copper) necessary.	It does not support a maximum number of nodes. It can connect only up to 64 nodes because of electrical loading.

2.	Huide Liu; Suwei Li; Lili Gao; Junfu Li 2010	CRT graphic display system of automatic fire alarm system based on GIS	CRT graphic display system of automatic fire alarm system based on GIS for the ready position fire locations, to select the best rescue route, about the fire scene surrounding environment plays a very important role in. This system is used for fire alarm and linkage of equipment management, control, monitoring, data, graphics, mainly displays text and other related fire and linkage information. Commonly used for large construction projects of fire control center.	CRT graphic display system intuitive an machine interface can be a comprehensive, real-time visual display of the fire scene, and the scene surrounding the situation. Help to fully grasp the situation on the ground rescue personnel quickly arrived at the fire scene.	The CRT's Gaussian beam profile produces images with softer edges that are not as sharp as an LCD at its native resolution

3.	Rajendra Prasad Behera; N. Murali; S.A.V. Satya Murty 2015	Development of Tele-Alarm and Fire Protection system using Remote Terminal Unit for Nuclear Power Plant	Tele-Alarm System (TAS) is used to ensure that the operator in every shift performs area surveillance of all the equipment to check their healthiness and identify maintenance requirements. During the surveillance, maintenance personnel operate area surveillance key that is provided at strategic locations such that no area in the plant is left unattended in every shift, as some of the equipment/buildings are unmanned normally. Water logging detectors are mounted near sumps, in pits, trenches/tunnels and other areas in the plant where water is likely to be accumulated and affect other systems.	The micro-controller based Tele-Alarm and Fire Protection System with distributed architecture have been successfully designed, developed and tested for 500MWe Prototype Fast Breeder Reactor being constructed at Kalpakkam project site. The hardware has been qualified to meet the environmental condition, EMI/EMC and seismic guidelines for a nuclear reactor.	The main drawback was poor wireless network sometimes and low power consumption.

4.	S. R. Vijayalakshmi; S. Muruganand 2018	Fire alarm based on spatial temporal analysis of fire in video	Fire alarm system is based on detection of fire from video acquisition input data. This is done with the help of digital image processing techniques and embedded vision. It is based on vision-based fire detection system. This approach integrates colour, spatial, temporal and motion information to locate fire regions in video frames.	The proposed technique can be incorporated with a fully automatic surveillance system monitoring open spaces of interest for early fire warning system. The detection rate is increased by combine image processing technique along with sensing technique using sensors.	Difficulties encountered in this research is the difficulty to determine the accuracy of the success of fire detection / fire danger. Future work development can be focused to generate a better formula to measure system performance and flicker into current system to achieve more robust fire detection.
5.	Mingyu Song; Wuxing Li; Xiaomin Zhang; Li Liu; Yanke Ci; Xushan Peng; Yongping Li; Haosong Chen 2020	Design of Distributed Factory Fire Alarm System	The distributed plant fire alarm system can quickly detect the fire and issue 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. It mainly completes the basic functions of fire, smoke and temperature module monitoring fire, and studies the multi-	It analyzes the characteristics of the existing intelligent monitoring system on the market, finds defects and deficiencies to improve, and draws advantages.	it cannot be used for non-carbon fires as well as only being able to detect fires that emits both the UV/IR radiation not individually

			point communication of nRF2401 wireless transceiver module to realize the function of transmitting data at multiple points simultaneously.		