NAALAIYA THIRAN

INDUSTRY - SPECIFIC INTELLIGENT FIRE MANAGEMENT SYSTEM

LITERATURE SURVEY

SIVASUBRAMANIAN R
UGENDRAN R
SAKTHI M
SUJITHA R

Dr. T J JEYAPRABHA

WQE	TITLE	PROPOSED WORK	TOOLS USED/ ALGORITHM	TECHNOLOGY	ADVANTAGES/ DISADVANTAGES
1	INTELLIGENT FIRE ALARM SYSTEM BASED ON MCU	IT COLLECTS SEVERAL INFORMATIONS ,COMPARES AND SENDS ALARM IF THE VALUE EXCEEDS	51 SERIES SINGLE CHIP MICROCOMPUTER,DS18B20 TEMPERATURE SENSOR, MQ-2 SMOKE SENSOR, FLAME SENSOR	PROTEUS SOFTWARE, KEIL SOFTWARE	CAN AVOID FALSE ALARMING AND OMISSION
2	RASPBERRY PI BASED SMART FIRE MANAGEMENT SYSTEM EMPLOYING SENSOR BASED AUTOMATIC WATER SPRINKLER	IF IT DETECTS FIRE OR GAS ,IT SWITCHES OFF THE MAIN POWER SUPPLY AND ONS THE EXHAUST FAN	FLAME DETECTORS, TEMPERATURE SENSORS	RASPBERRY PI	GIVES UPDATES OF ROOM TEMPERATURE TO THE USER FROM TIME TO TIME

WQE	TITLE	PROPOSED WORK	TOOLS USED/ ALGORITHM	TECHNOLOGY	ADVANTAGES/ DISADVANTAGES
3	AN INTELLIGENT FIRE DETECTION AND MITIGATION SYSTEM SAFE FROM FIRE	IT INVOLVES EXPERIMENTAL TESTS BY CREATING FIRE HAZARD PROTOTYPE SCENARIOS	MULTIPLE SENSORS, ACTUATORS, MCU,FUZZY LOGIC	GSM	ANNOUNCES LOCATION OF FIRE WITH SEVERITY
4	DESIGN AND IMPLEMENTATION OF SMART WIRELESS FIRE-FIGHTING SYSTEM BASED ON NB-IOT TECHNOLOGY	IT INVLOVES REAL TIME REMOTE MONITORING AND MANAGEMENT BASED FIRE ALARM SYSTEM	SMOKE DETECTORS, STM32L431 CHIP,ARM CortexM4	NB-IoT	ULTRA-LOW POWER DISSIPIATION, NO WIRING AND REMOTE MONITORING

WQE	TITLE	PROPOSED WORK	TOOLS USED/ ALGORITHM	TECHNOLOGY	ADVANTAGES/ DISADVANTAGES
5	SMART FIRE DETECTION SYSTEM USING IOT TECHNOLOGY WITH AUTOMATIC WATER SPRINKLER	IT DETECTS FIRE USING INTEGRATED SENSORS WITH ALERT	GSM MODEM	IOT	EXPERIMENTAL RESULTS PROVE AFFORDABILITY, RESPONSIVENESS AND EFFECTIVENESS
6	IOT BASED FIRE PREVENTING SYSTEM	IOT INNOVATION ESP32 FIRE CHECKING SERVICES FOR MECHANICAL AND RELATIVE REASONS	LDR SENSOR, ESP32 MICRO-CONTROLLER	WSN	EQUIPMENTS USED IS EASILY AVAILABLE AND COST EFFECTIVE

THANK YOU