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<u>**VIDEO ANALYSIS**</u>

Sending alert message

With the help of GSM module, they were sending an alert remotely [1] to the people. Their entire system is connected to Bluetooth which controls the entire system by an app. Servomotors [1] are also used as at the peak time of occurrence of smoke/fire the gates will open automatically. In [2], Authors had stated in paper that they have propounded a structure which is fit to recognize fire and can give the zone of the affected area. Arduino which are facilitated with a couple of sensors and camera. A 3600-exchange motor [2] is accumulated with the camera so it can snap the image in whatever point the flame is recognized. We have given an assertion of the fire hypothesizing structure [2] to keep up a vital separation from any bogus caution. The system will rapidly convey something explicit close by the image of the affected spot and Arduino's territory. A head can check or invalidate the indictment and if the manager insists the condition as a breaking out of fire, by then the structure will

instantly raise an alert and a modified message will be sent to the near to fire separation [2].In [3] Authors said that interconnection of physical gadgets introduced with equipment, programming, sensor which is prepared for gathering data from the incorporating and sending data over web is called IOT. We recognize three key classes: Smoke disclosure [3], Flame recognizable proof [3] and Temperature acknowledgment [3]. Modified fire ready structure gives steady perception, checking and customized In [4], Authors had stated in their paper that their method of fire detection is much more feasible [4], simple and understandable as compared to other domains [4]. Their main idea is to detect fire using some methods like Contour analysis, background subtraction and Open Computer Vision(OCV) [4]. By the use of these methods they had performed fire detection.In [5], Authors had stated in paper that they castoff the Global System for Mobile (GSM)[1] and some sensors to avoid false alarm. According to them, Wireless Sensor Network (WSN) is not suitable for fire detection as it sometimes didn't able to detect fire as a consequence of system failure, as WSN consists of some tiny and cheap chips. As a result of using of Fire Dynamic Simulator [5] in home, they found a rise in bar graph which was calculated in alarm per year and lower in mortality rate. With use of GSM module, they were able to send SMS for alerting people about occurrence of fire. Their proposed work was to detect the fire occurred was detected

without any false alarm [5] and to send the data as SMS to people to alert them about the fire. They tested it in 2 areas that shows the fire and alert them with SMS.