

ABSTRACT

Fire disaster is a disaster should be tackled early on. The conventional fire detection using sensors have a lot of deficiency. Among them have long time to detecting fire and can't be used in open space. Use fire detection based on video that can be done to optimize the review of the fire detection and can resolve shortage detection on conventional fire detection.

Fire detection system using video already many do. However, the detection has a shortage that interfere the accuracy of fire detection itself. That problem including detecting fire objects in the video accurately, and detection of flame motion area.

One of fire detection method in video use Colour Model that combined by Motion Model. Colour Model has an advantage of detection accuracy object in video because this method be relied to search an object in picture while Motion Model has advantages of detecting fire motion area because this method can detecting the movement of an object in many Pixel image, in this case is frame of video. The combination of these two methods can be used the detection of fire object in video.

Keyword : Fire Detection, Video, Colour Model, Motion Model