Video -Based Fire Alert

J.M. Thamim

Abstract: Literature reported a method to detect the fire using video based detection technology. This detection technology becomes the focal point of research with the advantages of high speed and anti-jammingcapabilty . The computational- based fire detection is based on vision has drawn significant attention in the past years with camera surveillance systems. The key idea to detect the fire is based on color and motion information, computed from video sequences. This approach is based on creating a Gaussian-flarttened color histogram to detect the fire- colored pixels, and then these fire-colored pixels are examined using temporal variation to detect which one of these pixels are actually fire pixels. Finally support vector machine classifier is used to separate fired and non-fired d images. The proposed method can work in variety of conditions , and that it can automatically determine when it has insignificant information.