

Abstract

Disaster is an event that can't be prevented by human beings, such as earthquake, eruption, landslides, tsunami and the others. These disaster have the potential loss of life. The difficulty location to reachable by human to evacuate and spend time to search victim in that location like trapped in buildings, that can make the victim in danger without know where is the victim location. Then it would require camera to detect location of victim. If there are victims in that location then will be carried out evacuation as soon as possible to save victims life.

The method for detection is poselet, which implements the methods of detection based on pose of victim. This pose can include whole body or part of body that can visible by camera, such as part of arm and body, part of body and head. This method has a good performance, because detection based on part of body, so if some part of body can't be visible by camera, this detection will detect another part of body but if full of body can't be visible by camera, the victim can't be detect by this method. For the support this method using feature Histogram of Oriented Gradient.

Using this method is expected to detect victims, although only few part of body can be visible by camera. So that can be to evacuate the victim from disaster scene. The application of simulation take in indoor room, with using pocket camera and taking picture on vertical or aerial view. Performance is calculated from precision and recall.

Keywords: *poselet*, human detection, victims detection, *latent SVM*, *histogram of oriented gradient*, object detection.