Abstract

Human detection is an important thing to do as rapid and accurate as possible. This final project is an initial research to human victim detection. Our approach is using image with laying human.

Model trained using Haar Feature-based Cascade Classifier. Haar Feature-based Cascade Classifier method has a capability to reject image without object rapidly with high detection rate at early stage so computation could be focused on area which has a potential of containing an object at next stage.

Result show the highest F_2-score produced by system is 77.78% on detecting human victim. Result also show that the optimum parameter of haar feature size is 21x42 pixel and number of stages is 20.

Kata Kunci: human detection, human victim detection, haar feature, cascade classifier, haar feature-based cascade classifier.