

DETECTION OF HUMAN IN SURVEILLANCE VIDEO USING MACHINE LEARNING

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The detection of human remains challenging due to large variation in human appearance resulting from Changes in poses, view points, Non rigid motion of the body. Tracking of human being can be used as a prior step in biometric face recognition. Keeping continuous track of person will allow to identify person at any time. The method for human detection by combining the object detection method (Viola -Jones) and the knowledge learned from the features such as Histogram Of Orient Gradient(HOG), HAAR features. These features have been combined and used for training the classifier. As the result the surveillance video will detect the presence of the human in a particular place. Experiments for human detection are performed on INRIA dataset, which shows the than histogram of orientated gradient (HOG) feature, under the same training method. The resulting detector is tested on several databases including a challenging test set taken from feature films and containing wide ranges of pose, motion and background variations, including moving cameras and backgrounds.