

FACIAL IMAGE DETECTION USING THE HAAR CASCADE CLASSIFIER ALGORITHM

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ABSTRACT

Humans can recognize objects very easily, in contrast to computers. If a computer wants to recognize an object, it must undergo a very long training process. There are many methods that can be used to train a computer so that it can detect an object well, one of which is the Haar Cascade Classifier algorithm. The Haar cascade classifier algorithm has become an algorithm commonly used for face detection. By using this algorithm, you can train a computer system to detect facial images. To train the system to detect faces, data in the form of faces is needed. This research will use a dataset in the form of faces and non-faces. With 20 training iterations and 200 training data, the test accuracy was 95.6%. The model tested can be run directly using a webcam camera on a laptop and can display facial area detection quite well.

Keywords: Digital Image Processing, Face Recognition, Haar Cascade Classifier