

Forum: [Hack Forums](#)

Thread: [Java + OpenCV?](#)

Ram - January 7, 2018, 5:37 pm

Anyone here experienced with Java + OpenCV to help me out with Facial Recognition. I basically wish to make a simple program of running a webcam to scan face, I managed to do the face detection, but I need to help with comparing faces or rather known as facial recognition..

If anyone can help me out that would be great! Thanks!

OneHalf - January 7, 2018, 9:17 pm

I'm assuming you already have loaded the classifiers and have some kind of detection method separate.

First you need to convert the frame in grayscale and equalize histogram.

Code `Imgproc.cvtColor(frame, grayFrame, Imgproc.COLOR_BGR2GRAY);`

`Imgproc.equalizeHist(grayFrame, grayFrame);`

then you'll want to set the min. size for the face to be detected This will set the min. size at 20%

Code `if (this.absoluteFaceSize == 0)`

```
{
    int height = grayFrame.rows();
    if (Math.round(height * 0.2f) > 0)
    {
        this.absoluteFaceSize = Math.round(height * 0.2f);
    }
}
```

Now initiate the detection

Code `this.faceCascade.detectMultiScale(grayFrame, faces, 1.1, 2, 0 |`

`Objdetect.CASCADE_SCALE_IMAGE, new Size(this.absoluteFaceSize, this.absoluteFaceSize), new Size());`

Put results in an array of rects and draw them out

Code `Rect[] facesArray = faces.toArray();`

`for (int i = 0; i < facesArray.length; i++)`

`Imgproc.rectangle(frame, facesArray[i].tl(), facesArray[i].br(), new Scalar(0, 255, 0, 255), 3);`

Should now recognize different faces.

ocd_eddie - January 11, 2018, 10:03 am

Look at something more sophisticated than OpenCV like deep learning facial recognition. This deep neural network stuff is getting very good and very accurate now.