

Face Databases

June 30, 2016

1 The Labeled Faces in the Wild

The Labeled Faces in the Wild is a well-known and used dataset of faces images that can be found in its official web page <http://vis-www.cs.umass.edu/lfw/>.

1.1 Properties

The characteristics of this dataset are the following ones:

- Number of samples/ Number of images : 13233
- Number of features/ length of each vectorized image: 187500
- Number of classes / Number of people: 5748
- The number of images per person is not the same for each one.
- The size of each image is 250x250 pixels.
- The images are RGB ones.
- The faces in images are in the center of the image.

2 Yale face database

The *Yale face database* could be found in the next url <http://vision.ucsd.edu/content/yale-face-database>.

This database has the following characteristics provided by authors:

- contains 165 grayscale images in GIF format of 15 individuals.
- There are 11 images per subject, one per different facial expression or configuration: center-light, w/glasses, happy, left-light, w/no glasses, normal, right-light, sad, sleepy, surprised, and wink.

3 The Collection of Facial Images

This database could be found in <http://cswww.essex.ac.uk/mv/allfaces/index.html>. The database is composed of four different database with different number of people or different size of images among database.

In general, the database has the following characteristics which are provided by authors:

- Total number of individuals: 395
- Number of images per individual: 20
- Total number of images: 7900
- Gender: contains images of male and female subjects
- Race: contains images of people of various racial origins
- Age Range: the images are mainly of first year undergraduate students, so the majority of individuals are between 18-20 years old but some older individuals are also present.
- Glasses: Yes
- Beards: Yes
- Image format: 24bit colour JPEG
- Camera used: S-VHS camcorder
- Lighting: artificial, mixture of tungsten and fluorescent overhead

4 Georgia Tech face database

Georgia Tech face database http://www.anefian.com/research/face_reco.htm

- Contains images of 50 people.
- There are 15 color JPEG images with cluttered background per person.
- The resolution is 640x480 pixels.
- The average size of the faces in these images is 150x150 pixels.
- The pictures show frontal and/or tilted faces with different facial expressions, lighting conditions and scale. Each image is manually labeled to determine the position of the face in the image. T