FACE RECOGNITION: UNDERSTANDING LBPH ALGORITHM

Note that Face Recognition is different of Face detection:

- Face Detection: it has the objective of finding the faces (location and size) in an image and probably extract them to be used by the face recognition algorithm.
- Face Recognition: with the facial images already extracted, cropped, resized and usually converted to grayscale, the face recognition algorithm is responsible for finding characteristics which best describe the image.

The Face Recognition Systems can operate basically in two modes:

- Verification or authentication of a Facial image: it basically compares the input facial image with the facial image related to the user which is requiring the authentication. It is basically a 1×1 comparison.
- Identification or Facial Recognition: it basically compares the input facial image with all facial images from a dataset with the aim to find the user that matches that face. It is basically a 1xN comparison.