

3. Task - Facial Expression Classification

Facial Expression Classification

Task: Classify the emotion given a static face image with KNN.

Emotion categories: 0=Angry, 1=Disgust, 2=Fear, 3=Happy, 4=Sad, 5=Surprise, 6=Neutral.

Dataset: [FER-2013](#). The database contains over 30000 pixel grayscale images of faces, each size is 48×48.

Notice: To get a good result, you should use the feature extraction technology of image processing, for example, Local Binary Patterns (LBP). LBP library can be found in [scikit-image](#). And you can use the [KNN library](#) of [scikit-learn](#) directly.

Submit: Report and related code ([jupyter notebook](#) format code is recommended). You can use [github](#) to submit the link.