

ROB311:

Facial Expression Recognition-KNN

The task is to classify the emotions given a static face image with KNN. Emotions have seven categories (0=Angry, 1=Disgust, 2=Fear, 3=Happy, 4=Sad, 5=Surprise, 6=Neutral). The database contains **48x48** pixel grayscale images of faces. You can download the database from [link](#). 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.