

Facial Emotion recognition using SVM and ANN

The identification of facial expressions that reveal human emotions can help computers to better assess the human state of mind, so as to provide a more customized interaction. We explore the recognition of human facial expressions through a deep learning approach using a Artificial Neural Network (ANN) algorithm. The system uses a labelled data set containing around 32,298 images with multiple facial expressions for training and testing.

The pre- training phase involves a face detection subsystem with. The pre- training phase involves a face detection subsystem with noise. ssification model used for prediction can identify seven emotions of the Facial Action Coding System (FACS). Results of our waork in progress demonstrate an accuracy of 90.8% for the recognition of all basic seven human emotions, without the application of optimization techniques.