CS 6327.001

Video Analytics

Report File

Submitted by:

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Emotion Recognition

Introduction :

In this project I have developed an approach for automatic facial expression recognition. We use a feature extraction technique inspired by our empirical study on human recognition of facial expressions. I have also employed simple SVM ensemble mechanism for classification.

Approach :

The approach that was taken while development of this project was that we used CK+ dataset for training the SVM classifier that was eventually used to predict the emotion on the image coming as an input. This input image can be either a sampled frame from a video input or a standard image.
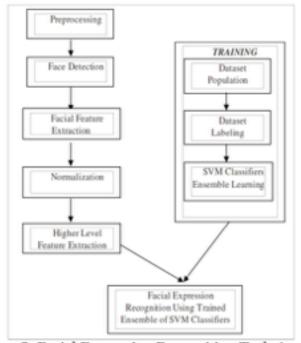

Figure 2. Facial Expression Recognition Technique

Implementation Parameters:

Dataset : CK+ dataset.

Training Classifier : SVM (1 vs 1 classifier)

Results: