Abstract

Facial expression is a main tool by which human beings as well as other living beings conveys their emotions. This paper discuss about the facial expression recognition using CNN (convolutional Neural Network), a part of deep learning. This paper discuss about a basilying facial Expusion recognition (FER) based on static images, without requiring any pre-processing or harduno extraction. It also discuss about other techniques to improve future accuracy using preprocessing and it includes face defection, illumination, feature extraction etc. the dataset used is FER 2013. The system's has technical work is divided in 3 different composents. ie, preprocessing, feature extraction & CAN Architecture this model was trained using to convolutional layers using 'RELU' as an activation function. in which 3 max-pooling and each max pooling followed by a convolutional layers. One flathered layer with 'RELU' and other hold 'Softmax' as an activation function that classifies b expresso? classes - Angry, Sad, Disgust, Fear, Happy, gurpaise and Neutral. The data set contains 35,1887 face crops, including training, validation and lessing images. Att imager are

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