

## **A Survey On Face Emotion Recognition And Applications**

### **Abstract:**

This paper presents a decade long research efforts of recognizing human emotion conveyed through facial expressions (face emotion). Face emotion recognition starts from processing still and video camera images and identifying the variations of features of face elements such as eyes, lips etc. Due to developments of bio-sensors, emotion measurement and categorization have been performed by processing bio-signals, for example, EMG and EEG, measured from the surface of human body. Several other bio-activities generated from within the human body such as temperature variations, changes in skin color, pulse rate and blood pressure variations were also used in recognizing the emotion. Several processing methodologies documented by researchers are presented in this paper with their relative merits and applications. Emotion controlled robots are in the increase to help severely disabled and aged persons to have a comfortable life. The objective of this paper is to illustrates how experts in various research areas such as sensor development, data acquisition, signal processing, emotion detection, emotion categorization and emotion controlled robotics are coming together to help the blind, dumb, disabled and aged people to lead a comfortable life.