In this paper we proposed new features based on wavelet transform for classification of human emotions (disgust, happy, surprise, fear and neutral) from electroencephalogram (EEG) signals. EEG signals are collected using 64 electrodes from twenty subjects and are placed over the entire scalp using International 10-10 system or international 10-20 system. The EEG signals are preprocessed using filtering methods to remove the noise. Feature extraction of the principle signal is done by using methods such as wavelet transform. The feature extracted signals are then classified using Neural Network (NN) and the neural system is trained and we get trained classifier according to the classification of the signals and the results are obtained. To test the signal the feature extracted signals are given directly to the trained classifier and results are obtained.

References

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Index Terms

Computer Science                              Signal Processing

Keywords

Electroencephalogram (EEG); Neural Network (NN); Wavelet transform