

256. BRAIN COMPUTER INTERFACE FOR EMOTION RECOGNITION

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Research on emotion recognition is a challenging field that targets methods to make effective human machine interaction. The EEG based emotion recognition is relatively new field in emotion computing area. Ongoing brain activity can be recorded as electroencephalograph (EEG) to discover the links between emotional states and brain activity. For better classification rate the fractal dimension feature is used in combination with higher order crossing (HOC) analysis. The SVM based emotion recognition algorithm is employed. This effective approach is accomplished by MATLABR2014a. The proposed system recognize up to six basic emotions. The user emotions are recognized and visualized in real time on his/her avatar adding one more so-called “emotion dimension” to human computer interfaces.

Keywords— EEG, HOC, SVM, avatar, fractal dimension

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