

Conversion of Sign Language into Text

Abstract

Sign Language Recognition is one of the most growing fields of research area. Many new techniques have been developed recently in this area. The sign language is mainly used for communication of deaf-dumb people. This ~~paper~~ shows the sign language recognizing of 26 gestures using in Indian sign language using MATLAB. The proposed system contains four modules such as: pre processing and hand segmentation, feature extraction, Sign recognition and sign to text. by using image processing the segmentation can be done. Some of the features are extracted such as Eigen values and Eigen vectors which are used in recognition. The Linear Discriminant Analysis (LDA) algorithm was used for gesture recognition and recognized gesture is converted into text and voice format. The proposed system helps to dimensionality reduction.