Abstract

Sign languages are natural language that used to communicate with deaf and mute people. It is a significant way of communication between normal and deaf and dumb people, which does not require an interpreter. The main objective of this project is to develop a system that helps hearing and speech impaired people to convey their messages to ordinary people. There is much different sign language in the world. But the main focused of system is on Indian Sign Language (ISL) which is on the way of standardization in that the system will concentrated on hand gestures only. Hand gesture is very important part of the body for exchange ideas, messages, thoughts among deaf and dumb people. The proposed system will recognize the Indian hand sign language of words and sentences and translate the signs into Marathi text with images which have been extracted from the input videos. The process will be divided into three parts i.e. preprocessing, feature extraction, classification. It will initially identify the gestures from Indian Sign language. Finally, the system processes that gesture to recognize character with the help of classification.
References

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Index Terms

Computer Science Pattern Recognition
Keywords

Computer and information processing, Feature extraction, Gesture recognition, SVM, thinning algorithm