Abstract

Sign language recognition is one of the most growing fields of research today and it is the most natural way of communication for the people with hearing problems. A hand gesture recognition system can provide an opportunity for deaf persons to communicate with vocal people without the need of an interpreter or intermediate. The system is built for the automatic recognition of Marathi sign language. Providing teaching classes for the purpose of training the deaf sign user in Marathi. The system can train new user who is unaware of the sign language and the training will be provided through offline mode. In which user can learn sign language with the help of database containing predefined sign language alphabets as well as words. A large set of samples has been used in proposed system to recognize isolated words from the standard
Marathi sign language which are taken using camera. The system contains forty-six Marathi sign language alphabets and around 500 words of sign language are taken. Considering all the sign language alphabets and words, the database contains 1000 different gesture images. The proposed system intend to recognize some very basic elements of sign language and to translate them to text and vice versa.

References

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Index Terms

Computer Science  Signal Processing

Keywords

Marathi Sign Language  Human Computer Interaction  Marathi Alphabet  Marathi Word  Preprocessing

Pattern Recognition And Pattern Matching.