Abstract

Automatic Sign Language Recognition is an extensive research area in the field of human computer interaction. Such recognition systems are meant to replace sign language interpreters. With the development of image processing and artificial intelligence techniques, many techniques have been recently developed in this area. Most of the signs in Indian Sign Language (ISL) are double handed and hence it is more complex compared to single handed American Sign Language (ASL). So, most of the researchers use ASL signs for creating their database. Recently, researchers from India have started working on ISL to develop automatic Indian sign language recognition systems. Mainly three steps are involved in sign language recognition-preprocessing, feature extraction and classification. The important classification methods used for recognition are Artificial Neural Networks (ANN), Support Vector Machine (SVM), Hidden Markov Models (HMM) etc.

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Index Terms

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Keywords
Sign language recognition   Indian Sign Language   ANN   SVM   HMM