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(57) Abstract :

The present disclosure relates to a pre-trained system (100) for conversion of sign language to alpha-numeric text and alpha-numeric text to sign language. The system comprises of gloves (104) worn by a user to indicate hand signs and the system gathers informations from the sensors on the gloves (104) to indicate a position and movement of the hand and the fingers to recognize the hand gesture. The system also comprises a camera for detection of images if required to process the images and convert the captured hand gesture into a corresponding sign language gesture. The method includes using advanced machine learning algorithms or data structures such as neural networks to train the data for a faster recognition of the hand sign from the stored data in the database (218) of the system.

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