

HAND GESTURE RECOGNITION FOR HEARING IMPAIRED

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ABSTRACT:

Hand Gesture is a common approach to communicate in sign language. Hearing-impaired people have a tough time communicating with the rest of the world. The mathematical interpretation of human's hand motions using a computing device is referred to as hand gesture recognition. This research proposes a solution that not only recognises hand gestures but also converts them into simple text so that people with disabilities can communicate with others easily. A computer attached camera captures photos of the hand signs, and contour feature extraction is utilized to recognise the person's hand gestures. The recorded text will be displayed based on the recognised gestures. In this proposed system, Open CV is used to identify the shape of the letter or symbols and computer vision technology to train the algorithm

Keywords– Hand Gesture, Image Recognition, Speech, Computer Vision, Open CV