

LITERATURE SURVEY PAPER3 - ABSTRACT

SIGN LANGUAGE CONVERTER

The aim of this paper is to design a convenient system that is helpful for the people who have hearing difficulties. This system can be used for converting sign language to voice and also voice to sign language. A motion capture system is used for sign language conversion and a voice recognition system for voice conversion. It captures the sign and dictates on the screen as writing. It also captures the voice and displays the sign language meaning on the screen as motioned image or video. Java based program is produced which can make voice recognition, motion capture and convert both of them to each other. Infrastructure of this system consists of three main branches as sign language, speech recognition and implementation with MS Kinect XBOX 360™. The two procedures of the project, sign language to voice, and voice to sign language translations work with respect to the choice of the user.

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When comparing with our project Talk2Mute both the project gives us many advantages by removing communication barriers between the disabled and able ones. Both these systems can be used in schools, colleges, hospitals, airports, courts and briefly almost everywhere. In common, joint tracking is most useful point in both the project.