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(57) Abstract :
Exemplary embodiments of the present disclosure are directed towards a system for sensing and translating sign language gestures to generate text and speech on computing device, hand glove comprising flex sensors, accelerometer, and communication establishment module electrically coupled to microcontroller to establish communication between hand glove and computing device, flex sensors positioned on fingers of hand glove, flex sensor configured to sense sign language gestures performed by user and converts sign language gestures to bend angle values using microcontroller; flex sensors configured to transmit bend angle values to accelerometer, accelerometer configured to measure tilt angle values in the fingers of hand glove and transmit tilt angle values to microcontroller, microcontroller configured to verify bend angle values and tilt angle values thereby generates text and speech on the computing device. FIG. 2.

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