LITERATURE SURVEY PAPER-4 ABSTRACT

HAND POSE ESTIMATION BASED ON DEEP LEARNING DEPTH MAP FOR HAND GESTURE RECOGNITION

This paper focus on the hand pose estimation from a depth map using CNN and propose a method for hand pose estimation by formulating a regression problem whose solution is the 16 hand joint locations. This method consist of two stages, the first one dealing a hand detection based on contours, the second one consists hand pose estimation using CNN. Given a hand depth map, the system starts by detecting the region of interest in the image using a segmentation based on contours. This initial region is processed to obtain a patch image with normalized depth values. Given this patch, a CNN architecture is used to estimate the hand pose.

       While comparing to our project TalkaMute, hand pose estimation has a major role in recognizing the gesture and displaying the corresponding word.