

ABSTRACT

Indonesian sign language recognition system is needed as a means of communication between deaf with people who do not understand sign language. There are two models of Indonesian sign language used is BISINDO and SIBI. In this final project is used BISINDO because it is more easily understood by the deaf than SIBI.

In this final project constructed Indonesian sign language recognition system by utilizing RGB data and skeleton kinect. The method used is Hidden Markov Model (HMM) as a method of classification

From the test results obtained the highest system accuracy by 78% with the optimum distance of 2 meters and computation time 1.473311 seconds.

Keyword : bisindo, hmm, kinect.