Bahria University
Discovering Knowledge

FINAL YEAR PROJECT REPORT

REAL TIME SIGN LANGUAGE RECOGNITION SYSTEM USING NEURAL NETWORKS

In fulfillment of the requirement
For degree of Bachelors in Computer Sciences (BSCS)

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REAL TIME SIGN LANGUAGE RECOGNITION SYSTEM USING NN

ABSTRACT

The mode of communication between two people is language. When talking about the deaf and dumb people they use sign language in which they make some sort of gestures to convey their messages but what if they are communicating with the one who don't have any known how of sign language. So to remove the communication gap between deaf/dumb and the common people we have planned to design a real time sign language recognition system.

We have planned to implement neural networks (NNs) with MATLAB but we also tried to implement other techniques like SVM and KNN. This sign language recognition system will work on real time then by take the images from our dataset or from real time videos after that machine is trained on and then convey the Edges count. Then one module is to recognize signs.

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