



Digital Receipt

This receipt acknowledges that **Turnitin** received your paper. Below you will find the receipt information regarding your submission.

The first page of your submissions is displayed below.

Submission author: Aziz Ullah, Najeeb Khan, Hafiz Sau...
Assignment title: Real Time Pakistani Sign Language...
Submission title: Real Time Pakistani Sign Language...
File name: thesis_merged.pdf
File size: 2.68M
Page count: 36
Word count: 6,842
Character count: 32,590
Submission date: 24-May-2018 09:01AM (UTC+0500)
Submission ID: 967941201

Abstract

We propose a system that would translate Pakistan Sign Language to text in real time. As a prototype, the system is limited to recognition of four pre-defined sentences. The system takes input from a Kinect Camera device as a person practices signs in front of it. The system generates the sentences on the screen being practiced in the sign. Our system uses depth information right from the Kinect device and computes the time-series of a sign being practiced. The system is trained on the four sentences using Random Forest. It evaluates the input sign on the model established after training and displays the sentence against the sign practiced on the screen as suggested (predicted) by model. Our tests report an accuracy of 85% using this approach. Our work can be extended to commercial scale based on the schema proposed by the project.