

the input voice into text and then transforms that text into two dimensions, can be employed even in industries (x,y)coordinates and subsequently into writing motions. Hence, the uppercase, capital-letter typeface signatures are readable and serve the aforementioned functions. The mechanism is set up with a speech recognition system, forcing the user to type out what they say. The robotic arm is set up to record whatever the patient or other person says through the microphone. The robotic arm will be equipped with a pen so that it can carry out the writing tasks. It will be a cheap device that can be configured to allow physically disabled persons to write.

Keywords: Dysgraphia, Versatility, Co-ordinates, Speech recognition.

INTELLIGENT TRAFFIC SIGN RECOGNITION AND VEHICLE CONTROL SYSTEM FOR AUTONOMOUS DRIVING

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Street signs are fundamental to guarantee a smooth and secure progression of traffic. Traffic signs shown on the streets play a significant role in our lives while driving as they supply critical information for road users. Traffic Sign Classification identifies and categorizes traffic signs to inform and warn a driver to avoid violating rules. The accident rate due to negligence in observing traffic signs and not following traffic rules has been increasing drastically. The use of integrated training data, which is created from road traffic sign images, allows us to overcome the issues of traffic sign location data sets that vary for different countries and regions. The classification of various data has been greatly successful thanks to the innovative solution that utilizes efficient traffic sign classification and deep learning through convolutional neural networks (CNNs). The neural networks can capture the color and texture of respective traffic signs on the road, which resembles human decision-making. The system has been tested with different traffic signs as inputs to convolutional neural networks for effective classification. The predicted traffic sign details are transmitted via Zigbee to the vehicle. The Zigbee receiver in the vehicle receives the information and passes it to the Arduino. The Arduino controls the vehicle motor by using a motor driver corresponding to the traffic sign details it receives. For example, if the Arduino receives the traffic sign details as "turn right", "speed limit 60 km/hr.", and "zebra crossing", then the vehicle turns right, adjusts its motor speed to 60 km/hr, and stops respectively.

Keywords: Convolutional Neural Network, ZigbeeReceiver,Traffic Sign Classification,Motor Driver,DeepLearning,Arduino.

SMS COMMUNICATION DEVICE FOR PERSONS WITH DEAFBLINDNESS

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Communication is essential in conveying one's feelings to another. It can be challenging for people with hearing and vision impairments to communicate with one another. Those