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Patent Search

Invention Title	TRAFFIC SIGN RECOGNITION AND VOICE ALERT SYSTEM USING CNN
Publication Number	35/2023
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Abstract:

Traffic signs and road safety are a must-know for everyone to make sure they are safe on roads and so are the people around them. Traffic sign detection is a Road vision problem and is the basis for many applications in the Automotive industries. Traffic signs are classified in terms of color, shape, and the presence of pictograms or text. The project is based on a deep neural network model that can classify traffic signs present in the image into different categories. A model is built using IoT devices that capture the traffic signs and alerts the user about the traffic sign.

Complete Specification

Description:Field of Invention
The present invention is a IOT field. The project is based on deep neural network model that can classify traffic signs present in the image into different categories.
The Objectives of this Invention
To develop an efficient and effective model, which predicts the traffic signs boards with best accuracy by using raspberry pi technology and CNN model to classify the image categories and to display the traffic sign board to give voice alert with accuracy.
Background of the Invention
In (US2019/10816993B1), a three-dimensional model is created using the results of the camera and sensors, and a vehicle is then used to travel the road using the model that has been created. This is one of the methods used by smart cars for navigating a road. In another invention (US2020/11640174B2), mechanism used in smart cars for self-navigating that involves building a 3D model using camera and sensor outcomes, retrieving a collection of high-definition maps, and producing a trip containing sections that travel from point A to point B; utilizing a camera and a sensor, identify a motorway entry or exit lane according to a road marking; if the route segments reaches the point of entry or exit, stay in the present lane before quitting; alternatively, proceed towards the entry or departure.
In (US2021/0349460A1), The automobile's sensor(s) may provide information from the sensors, which may then be encrypted to produce encrypted sensor information. To show on the control system's augmented reality headset, the digitally encoded data from sensors may be sent to the control system. Controlled inputs via the control unit may be represented in the data for control that the engine receives from the control panel, and the control signals can trigger one or more of the vehicle's actuator elements to be activated. In additionally (DE2019/112019006468T5), A wide variety of depth forecasting instruments, including but not limited to RADAR sensors, LIDAR

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