Abstract

It includes Deep Learning techniques using convolutional neural networks for getting the predictions and probabilities for the best decision that has to be made while driving a car like lane detection, traffic signals recognition and their localization and simultaneously developing a steering model to help to take decision regarding steering wheel, throttle thus stimulate a car like humans. In this paper, lane detection is the main concern is to move the steering in appropriate direction with proper angle and the problem is solved using convolutional neural networks via creating a model which then is trained over some collected training data of steering decisions on a track in a simulated environment.

References

17. Kseniya P. Korshunova, “A Convolutional Fuzzy Neural Network for Image Classification”, IEEE, 2018

Index Terms

Computer Science
Automated Systems
Keywords

Autonomous Car, Autonomous Vehicle, Driverless Cars, Deep Learning, Convolutional Neural Network