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Sri Lankan Number Plate Recognition System

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Abstract

The importation of vehicles has doubled during the last several years due to many reasons like Urbanization, modernization and an era of peace. Therefore, investigating vehicles have become a major challenge for the authorities. As a developing country the authorities do not have the necessary funds to monitor vehicles though CCTV based automatic number plate recognition/automatic license plate recognition (ANPR/ALPR) Systems in most of the regions. Therefore, it is difficult to find suspicious vehicles. But there are many traditional CCTV cameras in houses, shops etc.

Rear and front plates of Sri Lankan number plates are different due to the standard imposed on 2000's. Front number plate has a white background with black text on it. The back plate has a yellow background with white text on it. Also, the plate contains two letters at the beginning representing the province the plate was registered. And one more letter at the middle indicating the fuel type of the vehicle.

In this paper we introduce a system that can identify Sri Lankan number plates without the need of a CCTV camera.

Keywords : Machine Learning, Sri Lanka, Number Plate, Deep Learning, NPR, ANPR