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Malaysia License Plate Recognition Based On Deep Learning

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Abstract

License plate has been the most important feature in variety

of application for example in security and in traffic regulation. Recognizing the license plate research have been conducted for all these application and the data of the license plate can be found either at the toll station or even in parking lot. The important part in detecting vehicle plate is accuracy, speed and the use of limited bandwidth. There are several issues in detecting and recognizing the license plate as the feature of the license plate varies in term of the size of the plate, different standard of license plate and the color of the license plate. Various technique have been used in detecting the license plate especially in conventional image processing. Conventional image processing involve in thresholding, detection, segmentation and recognition. But there are limitations in conventional image processing. The system use a very complex algorithm and the data have a problem with a illumination and previous work usually keep some parameter constant in order to detect and recognize the license plate. While the conventional image processing lack in the accuracy regarding the illumination, deep learning being used to ease the complexity of the algorithm in the license plate recognition. One of the feature is Deep learning where the data can process al large number of data and the data can be trained and test. Neural network have been chosen as the main feature in detecting and recognizing the license plate



Biography:

Farah Nabillah has completed her Master Degree at the age of 25 years from University Putra Malaysia. She has patented one product based on her degree thesis in 2017 in contribution of detecting freshness of the food using mobile apps. She is an active in volunteering and has a keen interest in AI and education.

Speaker Publications:

1. Effect of surface finish on the wettability and electrical resistivity of Sn-3.0Ag-0.5Cu solder

December 2019IOP Conference Series Materials Science and Engineering 701:012029

DOI: 10.1088/1757-899X/701/1/01202.

2. The structure-property studies and mechanism of optical limiting action of methyl 4-((4-aminophenyl)ethynyl)benzoate crystal under continuous wave laser excitation September 2020

3. Glucose-sensing properties of citrate-functionalized magnetite nanoparticle-modified indium tin oxide electrodes, May 2020Journal of Materials Research 35(10):1279-1289,DOI: 10.1557/jmr.2020.104

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