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AUTOMATIC LICENSE NUMBER PLATE RECOGNITION SYSTEM

ABSTRACT

Technologies and Services towards Smart vehicles and Intelligent Transportation System continues to transform many aspects of human life. Automatic Number Plate Recognition has become a part of our lives and promises to stay in future. ANPR technology contributes towards Intelligent Transportation Systems and is eliminating the need of human intervention. This project aims to recognize License Number Plates. The project uses YOLOv4 object detector, OpenCV, and Tesseract OCR for ANPR. Object detector is to identify and crop License Plates, crop the License Plate region, preprocess the identified region using OpenCV, and then execute it through Tesseract OCR to output the License Plate Number. The backbone of this project is Tensorflow and it is written in Python.

Keywords : YOLOv4, OpenCV, Tesseract OCR, Tensorflow