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A Novel Car License Plate And Parking Slot Detection Approach Based on YOLO

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Abstract

The creation of reliable and effective procedures for vehicle monitoring and parking slot management has turned into a crucial research subject as the need for intelligent transportation and parking management systems keeps rising. The implementation of the cutting-edge object detection framework YOLOv8 (You Only Look Once version 8) for the simultaneous recognition of license plates and parking spaces in a controlled environment is thoroughly explored in this research article. The study emphasizes YOLOv8's benefits, such as its real-time detection capabilities and outstanding accuracy, which are essential for practical applications. The study's findings show that the model is capable of reliably identifying car license plates and parking spot occupancy in a variety of lighting situations and vehicle kinds. Along with model performance evaluation, this paper examines practical implementation scenarios, such as integrating the YOLOv8-based solution into existing parking management systems, real-time data analytics, and user experience and traffic management improvements.

Keywords: YOLOv8, object detection, number plate recognition, car parking slot detection, parking management, real-time detection

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