

Building a traffic sign recognition interface program using Matlab

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Abstract: The research aims to propose a solution for building an automatic traffic sign recognition system based on images using the MATLAB programming language. The reason for choosing this topic is the high demand for improving the efficiency of traffic monitoring and flow regulation. The project's objective is to develop an accurate recognition program with high reliability, while integrating modern image processing algorithms. The research methodology includes designing a recognition model, training the model with real-world data, and optimizing it to achieve the best results. The significance of the topic lies in the application of MATLAB technology to the field of transportation, contributing to enhanced traffic management performance.

Keywords: traffic sign recognition, MATLAB, image processing, automatic system, traffic regulation