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Abstract

The modern terrain of asphalt and motorways have become a standard of everyday life in a developed and developing nation. The rise in usage of motor vehicles has lead to the need to better regulate their use. These roadways have always been a way to transport us, our goods, and ideas throughout the age of homo sapiens up on mud to stone to brick, and now to petroleum distilled hydrocarbons. The goal of this project has been to be able to detect traffic congestions presence and levels via the analysis of the images gathered from traffic cameras that would indicate to the system the current flow status and give warning to the operators that could then relay the information to drivers within the affected area or take action themselves to resolve any issue if possible. Since the implementation of traffic monitoring systems are largely based on visual acuity of human operators using video monitoring cameras in tandem with other secondary sensing and monitoring devices in traffic control centers throughout the grid, it would be sensible to use the same system however enhancing it by the automation of the task of identifying and tallying vehicles flowing through the field of view of the camera at any given time. This would require the use of image processing algorithms and techniques within the bounds of the software tool MATLAB and other companion tools that would automatically indicate the presence of vehicles within a certain frame to further deduce the concentration of vehicle within the area. © 2022, The Author(s), under exclusive license to Springer Nature Singapore Pte Ltd.

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