Traffic is the major problem which every country faces because of the increase in number of vehicles throughout the world, particularly in large urban areas. This document presents a new developed Matlab Simulink model to compute traffic load for real time traffic signal control. Signal processing Blockset and video and image processing Blockset have been used for traffic load computation. The approach used is corner detection operation, wherein, corners are extracted to count the number of vehicles. This block finds the location of the corners, the number of corners, and the corner metric values. The developed model computes the results with greater degrees of accuracy and is capable of being used to set the green signal duration so as to release the traffic dynamically on traffic junctions.

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Index Terms

Computer Science

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Keywords

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