

### **315. AN AUTOMATIC ROAD SIGN RECOGNITION SYSTEM BASED ON LEARNING MACHINE APPROACH**

A.ARTHI, Electronic and communication engineering  
Sivarthi2010@gmail.com

This project presents an automatic road sign detection system based on instance based learning with local region descriptor analysis using global thresholding and mathematical morphology. The detection stage includes segmentation of image through RGB analysis, morphological filtering and connected component analysis. The classification module includes the local region features extractions and KNN classification. By applying the above given method the traffic sign indication will be shown in display as alphabets. This system avoids IP address assignment for traffic sign that exist. Finally this system is used to enhance the existing traffic sign indication method with IP address.

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