A Robust Method for Vehicle License Plate Recognition based on Harries Corner Algorithm and Artificial Neural Network

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Abstract

Automatic vehicle license plate recognition system plays an important role in Intelligent Transportation System. Even though many license plate recognition methods have been proposed in the past, further scope for improvement still exists. This paper has proposed a new approach to license plate recognition system based Harris corner detection algorithm. In this paper connected component analysis is used for character segmentation and artificial neural networks for character recognition. It is observed from the experiments that the developed system successfully identifies and recognizes the vehicle number plate under different illumination conditions and independent of orientation and scale of the plate.

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**Index Terms**

Computer Science

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**Keywords**

Intelligent Transportation System, Number Plate, Connected Component Analysis, Sliding Window, Corner Point..