

A PARALLEL APPROACH TO VEHICLE LICENSE PLATE CHARACTER RECOGNITION



**A project report submitted in partial fulfillment
Of the requirements for the degree of**

BACHELOR OF ENGINEERING

in

COMPUTER SCIENCE & ENGINEERING

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ABSTRACT

Traffic monitoring system has now become an essential administrative part in most of the developed and developing countries. Vehicle license plate recognition is one of important techniques that can be used for the identification of vehicles. It is useful in many applications such as entrance admission, security, parking control, airport or harbor cargo control, road traffic control, speed control, toll gate automation and so on. Automatic Vehicle Identification (AVI) has many applications in traffic systems. License Plate Recognition is an effective form of AVI systems.

There are many sequential approaches in existence for character recognition of a license plate. This work presents a parallel approach for character recognition in a license plate.

The Parallel approach is implemented and considerable reduction in execution time is demonstrated. Three trials are taken for different number of threads and a reduction of execution time by 62% is recorded for 8 workers, which is maximum limit supported by MATLAB.