ABSTRACT
With the rapid development of economic activities, transportation technology is changing rapidly; compared to the past, people have
significantly improved the number of vehicles, but are derived from the traffic management is gradually increasing. Past license plate
tracking and recognition, need to rely on the main road in the human way to find or search for targets in the video image, not only
time consuming but also very laborious; Therefore, this study by computer simulations of the human brain smart way, through
successive video images analysis parked at the roadside on the license plate of the automatic positioning and detection, to detect the
license plate of the position will be to facilitate the statistical number of motorcycles parked roadside. In this study, as the use of
mobile photography, through successive video frames for license plate identification and tracking. First, the color images of gray, and
the locking plate as part of the region of interest, and then point through Sobel edge detection and Hough transform method, and
then to color characteristics and determine whether the locomotive vehicle license plate recognition, to avoid misjudgment for
automotive license plates. License plate tracking part, the first screen for pre-treatment, then locate the position of the plate, grab the
bottom plate featured site, search for the next one in the image plate location and characteristics of location, to avoid duplication
determination plate, followed by the direction of the track will be tracking range is defined as the basis, and thus the number of
favorable locomotive statistics.

Keywords : Video image analysis、license plate location、license plate recognition and tracking


