Abstract

In real-time, identifying license plates from low quality images affected by multiple factors, such as severe brightness condition, tough background, distinct weather conditions, darkness, and appearance distortions is a difficult process. This paper gives a comparative analysis of different license plate detection (LPD) techniques in terms of their detection ratios. Super-resolution and enhancement techniques are discussed to overcome the problems faced by license plate recognition systems such as detecting license plates from blurred images. It is realized that image enhancement techniques are superior to image super-resolution techniques for improving low quality images.

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**Index Terms**

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LPD, low resolution, super-resolution, image enhancement