Identifying license plate region using fuzzy logic system

The first and the most significant step in identifying and reading license plates is finding the location of them. As yet many different methods with various performances have been provided for locating them in a single image. In this paper, fuzzy logic system is employed to identify the license plate region through some candidates. Fuzzification of this case will assist on recognizing the precise region of license plates through the impact level of variables on their location and enhancing the system’s efficiency. To achieve this, we counted brightness intensity variations and use it along with their aggregates in each license plate candidate’s row to enhance binary images for fuzzification. According to the results, in 66.69% of images, the candidate containing license plates are identified correctly.

license plate region; fuzzy logic system; license plate candidate; the number of brightness intensity variations; brightness intensity variation intervals

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