Automatic system recognition of Lebanese license plates

Titre	Automatic system recognition of Lebanese license plates
Type de publication	Communication
Type	Communication avec actes dans un congrès
Année	2010
Date du colloque	2010
Titre du colloque	IEEE Fifth International Conference on Bio-Inspired Computing: Theories and Applications, BIC-TA
Titre des actes ou de la revue	IEEE Fifth International Conference on Bio-Inspired Computing: Theories and Applications, BIC-TA
Pagination	1399 - 1405
Auteur	Akoum, Al Hussain [1], Daya, Bassam [2], Chauvet, Pierre [3]
Pays	Royaume-Uni
Ville	Liverpool
Mots-clés	Arabic line [4], automatic system recognition [5], character extraction [6], character identification [7], French line [8], fusion of basic algorithm [9], image classification [10], Image processing [11], image processing technology [12], Image segmentation [13], k-mean classification [14], labeling classification [15], Lebanese license plates [16], object detection [17], object recognition [18], system recognition [19], vehicle identification [20], vehicles [21]
Résumé en anglais	License Plate Recognition is an image-processing technology that is used to identify vehicles by their Lebanese license plates. A license plate reader works by extracting the characters from an image. This technology is used for many applications such as toll booths, parking decks, border control, and law enforcement. As a solution to the problem of monitoring the tremendous number of vehicles for law enforcement and security, we use two methods of classifying the Lebanese plate in several areas: Labeling and K-Mean. Then, we have to extract from the plate the two classifications, which are the French line and the Arabic line. We separate each character from each line using the vertical profile method. Then we would recognize the characters by the algorithm of the K-PPV with a rate of recognition of the characters: The Arabic writing is of 82% and the Western writing is of 91 %. Finally we use a vote method between the two writings to increase the rate of recognition up to 93%.
Notes	Date du colloque : 09/2010
URL de la notice	http://okina.univ-angers.fr/publications/ua1547 [22]
DOI	10.1109/BICTA.2010.5645286 [23]
Lien vers le document en ligne	http://dx.doi.org/10.1109/BICTA.2010.5645286 [23]

Liens

[1] http://okina.univ-angers.fr/publications?f[author]=2224
[2] http://okina.univ-angers.fr/publications?f[author]=2091
[3] http://okina.univ-angers.fr/pierre.chauvet/publications
[4] http://okina.univ-angers.fr/publications?f[keyword]=6741
[5] http://okina.univ-angers.fr/publications?f[keyword]=6742
[6] http://okina.univ-angers.fr/publications?f[keyword]=6743
[7] http://okina.univ-angers.fr/publications?f[keyword]=6744
[8] http://okina.univ-angers.fr/publications?f[keyword]=6745
[9] http://okina.univ-angers.fr/publications?f[keyword]=6746
[10] http://okina.univ-angers.fr/publications?f[keyword]=6747
[11] http://okina.univ-angers.fr/publications?f[keyword]=5791
[12] http://okina.univ-angers.fr/publications?f[keyword]=6748
[13] http://okina.univ-angers.fr/publications?f[keyword]=6749
[14] http://okina.univ-angers.fr/publications?f[keyword]=6750
[15] http://okina.univ-angers.fr/publications?f[keyword]=6751
[16] http://okina.univ-angers.fr/publications?f[keyword]=6752
[17] http://okina.univ-angers.fr/publications?f[keyword]=6348
[18] http://okina.univ-angers.fr/publications?f[keyword]=6753
[19] http://okina.univ-angers.fr/publications?f[keyword]=6754
[20] http://okina.univ-angers.fr/publications?f[keyword]=6755
[21] http://okina.univ-angers.fr/publications?f[keyword]=3866
[22] http://okina.univ-angers.fr/publications/ua1547
[23] http://dx.doi.org/10.1109/BICTA.2010.5645286