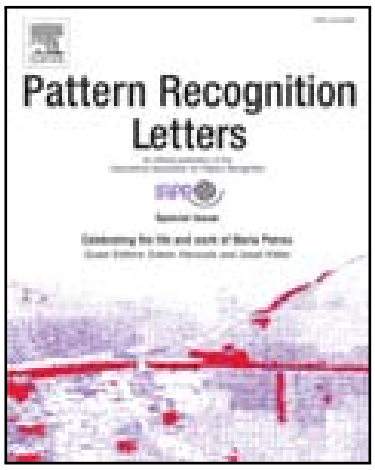
Accepted Manuscript



A New Image Classification Method Based on Modified Condensed Nearest Neighbor and Convolutional Neural Networks

Tianming Liang , Xinzheng Xu , Pengcheng Xiao

PII: S0167-8655(17)30168-X
DOI: 10.1016/j.patrec.2017.05.019
Reference: PATREC 6825

To appear in: *Pattern Recognition Letters*

Received date: 1 December 2016
Revised date: 4 May 2017
Accepted date: 19 May 2017

Please cite this article as: Tianming Liang , Xinzheng Xu , Pengcheng Xiao , A New Image Classification Method Based on Modified Condensed Nearest Neighbor and Convolutional Neural Networks, *Pattern Recognition Letters* (2017), doi: 10.1016/j.patrec.2017.05.019

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

ACCEPTED MANUSCRIPT

Highlights

- A novel and effective sample selection method is proposed.
- The condensed nearest neighbor rule is optimized based on k-means clustering algorithm in the proposed method.
- The proposed method could select discriminative training samples for classification.
- Appropriate quantity and quality of training samples could improve the accuracy and prevent overfitting of CNN.

ACCEPTED MANUSCRIPT

Download English Version:

https://daneshyari.com/en/article/4970064

Download Persian Version:

https://daneshyari.com/article/4970064

Daneshyari.com