Abstract

In this paper, appropriate feature set based on the box approach has been proposed to achieve higher recognition accuracy and decreasing the recognition time of Persian numerals. In classification phase, support vector machine (SVM) with linear kernel has been employed as the classifier. Feature sets consists of 163 dimensions, which are the average angle and
distance pixels which are equal to one in each box the box approach. The scheme has been evaluated on 60,000 handwritten samples of Persian numerals. Using 60,000 samples for training, scheme was tested on other 20,000 samples and 98.945% correct recognition rate was obtained.

Reference

Using Box Approach in Persian Handwritten Digits Recognition


Index Terms

Computer Science
Artificial Intelligence
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<th>Key words</th>
<th>Support vector machines</th>
<th>linear</th>
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