Identification of Institutional Logo based on Wavelet Features

Volume 107 - Number 15

Year of Publication: 2014

Authors:
B. V. Dhandra
Shridevi Soma
Gururaj Mukarambi

10.5120/18826-0255

Abstract

The main aim of this paper is to recognize the logos of the input document so as to process the document for its classification and analysis, an algorithm is proposed using texture features based on Discrete Wavelet Transform (DWT) and Fast Fourier Transform (FFT) of object occurrence in a new tessellation of logo images and these features are given to the SVM and KNN classifier for recognizing the logos. The proposed algorithm is experimented on a data set of Institutional logos. The experimental results have shown the average recognition accuracy as 67.74% using NN classifier, 79.35% using KNN classifier and 87.09% using SVM classifier. It is an initial attempt towards the classification of documents based on logos.

References

Identification of Institutional Logo based on Wavelet Features

- B. V. Dhanda, Shashikala P, Gururaj M, Kannada Handwritten Vowels Recognition Based on Normalized Chain Code and wavelet Filters, National Conference on Recent Advances in Information Technology, 2014

Index Terms

Computer Science

Image Processing
Keywords
Wavelet Transforms - DWT  FFT  Classifiers - NN  KNN  SVM.