Abstract

Identification of ownership of any complex document is a challenging task in the field of Document Image Processing. There are many ways in which the constituent parts of the whole document image is used to know the ownership. These constituent parts might be seal, logo, signature, letter number, name of the organization written with different font type and size. In this paper a system is devised to identify the document using Reference Number part of the letter, which is normally found in any official letters, normally it contains the information such as name of the organization, name of the department, academic year and letter number. The segmented part of this reference number is used for defining the feature set that contains total of 17 features out of which 10 are shape features and 07 are Hu's moment invariant.
features. The Support Vector Machine classifier with RBF kernel is used for pattern matching. The proposed algorithm is experimented on a data set of letters from Gulbarga University Gulbarga. The experimental results have shown the average recognition accuracy of 85.42%.

References

Index Terms

Computer Science

Image Processing

Keywords

Connected Component Labeling  Moment Invariant  Svm.