Abstract

In this article, a printed Tifinagh character recognition system is presented. It is composed of three main steps: pre-processing, features extraction and classification. In the pre-processing step, binarization, normalization and thinning are applied to enhance the quality of the image. In the feature extraction step, corners are extracted using Harris Corner Detection method then represented by graph. In the classification step, graphs are compared using a graph matching method. Experimental results are obtained using IRCAM database to test the effectiveness. The system shows good results in terms of accuracy.

References

Transactions on Pattern Analysis and Machine Intelligence.


Index Terms

Computer Science
Pattern Recognition
Keywords

Character Recognition, Graph Matching, Tifinagh Character, Harris Method