Abstract

Handwritten character recognition (HCR) is one of the most interesting topics in image processing and pattern recognition. Handwritten Character Recognition is not a difficult task for humans, but for a machine it’s really tough. In Handwritten Character Recognition method the input is scanned from images, documents and real time devices like tablets, computers and digitizers etc. which are then interpreted into digital text. There are basically two approaches - Online Handwritten recognition which takes the input at run time and Offline Handwritten Recognition which works on scanned images. Offline handwritten character recognition is a process where the computer understands automatically the image of handwritten script. Several applications are used HCR like mail sorting, bank processing and document reading, etc. Offline handwriting recognition is comparatively difficult, as different people have different handwriting style. This research is confined within offline character recognition only. Gujarati is the name of script used to write the Gujarati language and spoken by the people in state Gujarat in India.

Index Terms

Computer Science Pattern Recognition

Keywords

Handwritten character recognition (HCR), Optical Character Recognition (OCR), Support Vector Machine (SVM).