Abstract

This is the age of digital systems. Now a days, everything is being computerized. Peoples are using mobile phones, laptop, computer, camera, notebook, pdf reader etc digital systems too much than ever. Use of papers and pen, printed books are decreasing. Rather peoples are using digital means of communication, study, documentation. Optical character recognition is an application of these digital systems. There are many ways and systems to recognize a character from a printed document. Many research works have been done for OCR in different languages using neural network, support vector machine, markov model. In this paper, an Adaptive Neuro Fuzzy Inference System (ANFIS) based methodology has been proposed for recognizing characters from printed documents such as text image. Purpose of this paper is not making a software but proving the usability and effectiveness of ANFIS for optical english character recognition and propose a anfis system with less error and more efficiency. Proposed system can detect every character perfectly without error.
10. GANESH S. SABLE and SHEETAL ARUN NIRVE. OPTIMIZATION OF OPTICAL CHARACTER RECOGNITION FOR PRINTED DEVANAGARI TEXT USING ANFIS TECHNIQUES.

**Index Terms**

Computer Science Fuzzy Systems

**Keywords**

Optical character recognition, OCR, adaptive neuro fuzzy inference system, ANFIS, Printed text, artificial intelligence, image processing