Abstract

Handwriting recognition has become one of the most fascinating research areas in recent years. Handwriting recognition can be defined as the process of converting human written text into a standard text document form. Optical Characters Recognition (OCR) is one of the active subjects of research since the early days of computer science. There are two main stages in most of OCR systems: features extraction and classification. Artificial Neural Networks and Hidden Markov Models are the most popular classification methods used for OCR systems. Handwriting recognition systems are of extreme significance in human computer based applications and in modelling human behaviour. In this paper a recognition system has been
proposed to recognize characters involving both English alphabets and numerals. This method is capable of detecting characters without extracting any features from written text, by adopting a 3-level segmentation technique. We have achieved about 95% to 98% of recognition accuracies using this approach.

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Index Terms

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