

Abstract

The present work introduces a design of Arabic character recognition system based on Brain modeling. The Designed system. Overcome some of the drawbacks of the traditional character recognition systems .

The design of the suggested system including five principal stages. The first stage reads the printed Arabic documents making use of the HP Scanner Jet which generates TIF(Tagged Image File) file . The second one deterring the proper degree of attention for the model operation .The third one processes the effects of input text on activation of some brain components . The fourth one extracts the peaks of the characters from the surface of the text document The last divides the whole text into separate characters (segmentation) .

A number of new ideas and methods are proposed for the purpose of segmentation , The application of these proposals have given good and satisfactory results , by which the adopted process of segmentation can be simplified in other well-known methods then , the segmented characters can be classified depending on the abstracting experience as a result of the previous work .As the well as the system is supplied with the phase of learning according to its supervisor