RECOGNITION OF SOME HANDWRITTEN ENGLISH CHARACTERS DRAWN BY MOUSE DRAGGING USING CORRELATION APPROACH

G. G. SARATE AND D. V. ROJATKAR

Abstract

Hand written character recognition is a classic recognition problem. Data to the digital computer can be acquired by variety of means. Some popular methods are scanning the printed document with digital camera, writing pad etc. Here data is acquired directly through mouse dragging on mouse pad. The handwritten in the title of this paper suggests non typewritten character. The character set for the recognition system consists of five characters as A, B, L, M, and T.   In the recognition mode, first, the given image is preprocessed for the useful data using 8-connectivity. Then the characters in the input image are extracted. Then, correlation matrix is calculated for each character of the candidate image character with the characters in the data base. The maximum correction value is the decision maker to recognize the character in the given image. The programming is done using MATLAB 7.1 image processing toolbox is also used[1].

The character images are acquired through Microsoft Paint 2000 tool or can be acquired with any other similar way.