

Abstract

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New Efficient Algorithm for Recognizing Handwritten Hindi Digits

in this paper a new algorithm for recognizing handwritten hindi digits is proposed. the proposed algorithm is based on using the topological characteristics combined with statistical properties of the given digits in order to extract a set of features that can be used in the process of digit classification. 10,000 handwritten digits are used in the experimental results. 1100 digits are used for training another 5500 unseen digits are used for testing. the recognition rate has reached 97.56%, a substitution rate of 1.822%, a rejection rate of 0.618%.