

LITERATURE REVIEW

TEAM ID	PNT2022TMID27693
PROJECT NAME	A NOVEL METHOD FOR HANDWRITTEN DIGIT RECOGNITION SYSTEM

INTRODUCTION:

Handwritten digit recognition is the ability of a computer to recognize the human handwritten digits from sources like images, papers, touch screens etc, and classify them into 10 predefined classes (0-9) Recognition, postal mail sorting, bank check processing etc.

1. Richa Goswami and O.P Sharma

A review on character recognition techniques

International Journal of Computer Application (0975-8887)

Volume 83-NO 7, December 2013:

In this study, main approaches used in the CR field during the last decade are overviewed. Different pre-processing segmentation techniques and various classifiers with different features are also discussed. It is found that neither the structural nor the statistical and structural information can represent a complex pattern alone. Therefore, one needs to combine statistical and structural information supported by semantic information.

2. Kimura.F and Shiridhar.M (1991)

Handwritten numerical recognition based on multiple algorithms, pattern Recognition,
No 10, vol.24, pp 969-983

In this study the main approach is to identify numerals that may be isolated or connected, broken or continuous. Here, the recognition algorithm is derived as a tree classifier. In an extensive test experiment, an accuracy of 99% was realized with isolated numerals when connected numerals were also included a recognition accuracy of 93% was obtained.

3. Ayush purohit and Shardul Singh Chauhan

A literature survey on handwritten character recognition,

International journal of computer science and information technologies,

Volume.7 (1), 2016, 1-5

This paper discusses in detail all advances in the area of handwritten character recognition. From the study, it is analyzed that the selection of the classification as well as the feature extraction techniques needs to be proper in order to attain good rate in recognizing the character. Studies in the paper reveals that there is still scope of enhancing the algorithms as well as enhancing the rate of recognition of characters.