### **A NOVEL METHOD FOR HANDWRITTEN DIGIT RECOGNITION SYSTEM**

**LITERATURE SURVEY:**

**The Purpose of this chapter is to review the previous of Researchers on the Novel Method For Handwritten Digit Recognition System.This chapter will present the main recent works on the handwritten digit recognition system.**

**A. Brakensiek, J. Rottland, A. Kosmala, J. Rigoll [10] et al, in this paper a system for off-line cursive handwriting recognition is described which is based on Hidden Markov Models (HMM) using discrete and hybrid modelling techniques.**

**Mohammed Z. Khedher, Gheith A. Abandah, and Ahmed M. Al Khawaldeh [13] et al, this paper describes that Recognition of characters greatly depends several features of the Arabic characters.Evaluation of the importance and accuracy of the selected features is made.The recognition based on the selected features give average accuracies.**

**Sushree Sangita Patnaik and Anup Kumar Panda May 2011 [14] et al, this paper proposes the implementation of particles warm optimization (PSO) and bacterial foraging optimization (BFO) algorithms which are intended for optimal harmonic compensation by minimizing the undesirable losses occurring inside the APF itself.**

**Salvador España-Boquera et al [6], in this paper hybrid Hidden Markov Model (HMM) model is proposed for recognizing unconstrained offline handwritten texts.The structural part of the optical model has been modelled with Markov chains, and a Multilayer Perceptron is used to estimate the emission probabilities.**

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