**A NOVAL METHOD FOR HANDWRITTEN DIGIT RECOGNITION SYSTEM**

| *Sr.No* | *Name of Author* | *Year* | *Neural Network* | *Feature Extraction* | *Pros* | *Cons* |
|---|---|---|---|---|---|---|
| [I] | A.Gatta! and C.Djeddi | [2016] | SVM classifier | OB!Fs and concavity feature | High recognition rate | Certain digit causes issue m recognition |
| [2] | L.M. Seijas and R. F. Carneiro | [2015] | SVM classifier | BFSS,ABACO,BPSO | BFSS achieved the best accuracy rate than other methods | Result may vary using other classifier. |
| [3] | R Babu and C.Babu | [2015] | NNC | Novel based on distance | Process time is quick. | Other classifier may vary the result. |
| [4] | Bourche .EL Qucinny and A. Hammouch | [2014] | SVM classifier | Discrete cousin transform | Higher recognition rate and can be used for Arabic. | Performance decreases. |
| [5] | R Babu and A.Kumar | [2014] | KNN | Fill hole density | Deals with only neighborhood pixels | Overhead increases. |
| [6] | Mamta garg | [2013] | MLP and SVM | Hough transform | Robust detection takes place between noise and partial occlusion | Accuracy not good |
| [7] | Akhtar and Qureshi | [2013] | K-NN and SVM | Wavelet technique | High recognition is achived | Performance and result may increase. |
| [8] | J.Pradeep and E. Srinivasan | [2011] | MLP | Diagonal based | Provides accurate information. | Not suitable for digits with straight lines. |
| [9] | RMO.Cruz and T.Ingren | [2010] | Classifier ensemble | Multi-zoning and modified edge maps | Improved recognition performance | Strategy needed for rejecting the ambiguous data |
| [10] | K.labusch and E.barth | [2008] | SVM | Sparse coding | Better performance is achieved | Doesn't use prior knowledge for handwritten |