

intersection and open end points features, parabola curve fitting based features, power curve fitting based features and zernike moments based features. Two efficient features, namely, peak extent based features and modified division points based features have also been presented in this paper. PCA has also been used for reducing the dimension of data. The classifiers that have been employed in this work are k -NN, Linear-SVM, Polynomial-SVM and RBF-SVM and combinations of these. Database partitioning strategy and 5-fold cross validation wise recognition accuracy is depicted in Table II and the proposed system achieves an average recognition accuracy of 92.3% with our dataset of 56-class problem as shown in Table II using dataset partitioning strategies (a , b , c , d and e). Using 5-fold cross validation approach, maximum recognition accuracy of 87.6% has been achieved for 56-class problem. We have concluded that the parallel combination of Linear-SVM, Polynomial-SVM and k -NN performs better than other classification techniques. This work can also be extended for other scripts after building the data set of those scripts.

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