Tsang *et al.* (2008)developed~~extended~~ the CVM algorithm throughraising~~presenting~~a new constrained MEB problem,andsuggested an $(1+\varepsilon)^2$-approximation algorithm for extracting the maximum margin discriminant analysis (MMDA) features~~ suggested an $(1+\varepsilon)^2$-approximation algorithm~~. ~~Extensive comparisons with~~Comparing the original MMDA, kernel Fisher discriminant analysis (KFD), and kernel principal component analysis (KPCA) on a few of large data sets revealed~~s~~ that the recommended feature extractor can make classification accuracy better, and also by over an order of magnitude is faster than these kernel-based methods.

(1)

5.2.5. Termination condition~~:~~

The whole CLPSO algorithm is finished and the outputs are obtained as the result~~When~~ whenthe fitness difference between the two last populations are less than 0.001 for 10 generations for the best public positions~~ is less than 0.001 for 10 generations, the whole CLPSO algorithm is finished and outputs the result~~. In addition, the process is ~~will be~~ enforced to stop while the number of generations is over 100.

Table 12:*Classification results of proposed nonlinear kernel combination method and other methods*

Dataset Name	EKCVM	EKSVM	RBF	Polynomial	Laplacian	Grid algorithm
Iris	98.33±1.67	98.17±1.83	86.67	75.33	87.33	96.14
Wine	98.74 ± 1.26	98.72±1.28	94.44	88.57	94.29	97.19

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