data set	*N*	N_c	N_r
abalone	8	11	3842
iris	4	3	150
water	38	4	513
wine	13	3	178
wisconsin	9	2	683
yeast	8	9	1479

Table 1 - Classification data sets used in the experiment

data set	EM^{stc}	*GA*	*FS*	*EM*	EM_{RF}^{stc}	GA_{RF}	EM_{RF}
abalone	24.35	24.37	23.99	***opt***	52.50	50.00	**57.50**
iris	98.00	98.00	99.39	***opt***	55.00	**60.00**	50.00
water	73.34	66.28	-	**80.03**	54.21	47.89	**63.16**
wine	98.57	98.57	99.80	***opt***	58.46	61.54	**72.31**
wisconsin	98.25	98.04	98.62	***opt***	**53.33**	40.00	48.89
yeast	47.07	47.03	51.15	***opt***	17.50	12.50	**22.50**

Table 2 - Accuracy and feature reduction comparison for 1NN classifier

data set	FS_t *(s)*	EM^{stc}_t *(s)*	GA_t *(s)*	EM_t *(s)*
abalone	8.4	1376.1	7097.2	**7.2**
iris	**0.0**	7.5	288.6	0.9
water	>3 days	262.8	1574.5	**55.7**
wine	**1.9**	153.0	269.9	2.5
wisconsin	**0.6**	70.6	2096.8	2.0
yeast	**1.2**	234.7	2252.3	2.4

Table 3 - Computational times for 1NN classifier

data set	*N*	N_c	PSO^1	PSO^2	*FS*	*EM*	PSO^1_d	PSO^2_d	EM_d
breast-cancer	30	2	96.83	**97.66**	-	95.92	11.1	12.2	**6.4**
heart	13	2	84.30	86.01	83.74	**opt**	8.6	7.5	**3.5**
wine	13	3	99.19	99.72	97.30	**opt**	8.3	8.6	**6.7**

Table 4 - Accuracy and number of features comparison table for SVM classifier