

Table 1. Classification results on the UCI datasets (# points correctly classified / # points for testing).

data set	input space		feature space	
	NM	FN	NM	FN
pinna	463/638	432/638	477/638	428/638
soybean	36/37	35/37	37/37	37/37
wine	86/118	77/118	113/118	115/118
breast	430/469	420/469	448/469	451/469
ionosphere	159/251	212/251	201/251	224/251

ing methods by means of the kernel methods and MDS techniques. In the classification scenario, we defined discriminant kernels on the joint space of input and output spaces, and presented a specific family of the discriminant kernels. This family of the discriminant kernels is attractive because the induced metrics are Euclidean and Fisher separable.

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