where $\ell = 20$). SS-LFDA and SS-DNE are highlighted when they outperform their opponents (LPP* and DNE for SS-DNE, and LPP*, LFDA and SELF for SS-LFDA). Superscripts indicate one-tailed paired t-test for differences in accuracies between our algorithms and their best opponents. No superscripts denote confidence levels which below 80

Linear	PCA	LPP*	DNE	LFDA	SELF	SS-DNE	SS-LFDA
Ionosphere	71±1.2	82±1.3	70±1.2	71±1.1	70±1.5	75±1.0	78.1±.9
Balance	49±1.9	61±1.9	63±2.2	70±2.2	69±2.3	$\mathbf{71\pm1.8}^{99}$	$\mathbf{73\pm2.3}^{80}$
BCI	49.8±.6	53.4±.3	51.3±.6	52.6±.5	52.1±.5	$\mathbf{57.1\pm.6}^{99}$	$\mathbf{55.2\pm.3}^{99}$
Usps	79±1.2	74±1.0	79.6±.6	80.6±.9	81.7±.8	$\mathbf{81.8\pm.5}^{99}$	$\mathbf{83.0\pm.5}^{90}$
M-Eyale	44.6±.7	67±1.1	66±1.2	71.6±1.0	67.2±.8	$\mathbf{76.9\pm.8}^{99}$	$\mathbf{75.7\pm.9}^{99}$
Kernel	PCA	LPP*	DNE	LFDA	SELF	SS-DNE	SS-LFDA
Ionosphere	70±1.8	83.2±.9	70±1.6	71±1.3	74±1.5	$\mathbf{87.2\pm.9}^{99}$	$\mathbf{88\pm1.0}^{99}$
Balance	41.7±.8	47.9±.9	62±2.5	66±2.0	60±2.8	$\mathbf{66\pm1.8}^{80}$	$\mathbf{69\pm1.9}^{80}$
BCI	49.7±.3	53.7±.3	50.1 ±.4	50.3±.6	50.5±.4	$\mathbf{53.8\pm.3}$	$\mathbf{54.1\pm.3}^{80}$
Usps	77±1.1	76±1.1	79.9±.5	80.3±.8	80.9±.8	$\mathbf{82.0\pm.4}^{99}$	$\mathbf{83.7\pm.6}^{99}$
M-Eyale	42.1±.9	63.2±.7	58.0±.9	60.3±.8	58.8±.7	$\mathbf{69.9\pm.7}^{99}$	$\mathbf{73.2\pm.8}^{99}$