

S2 Table. Comparison of different SSVMs with SVM and LSSVM at different scales.

SSVM	performance	Classification	CPU	Classification	CPU
		accuracy	Training	accuracy	Training
		(percentage)	time (s)	(percentage)	time (s)
		M=130		M=270	
SVM		83.850	6.817	85.560	10.043
LSSVM		81.539	0.032	84.815	0.055
Sigmoid-SSVM		83.077	0.089	84.074	0.943
P2-SSVM		84.184	0.073	84.444	0.686
P4-SSVM		84.444	0.032	84.815	0.751
S3-SSVM		84.615	0.089	85.185	0.689
S5-SSVM		84.615	0.069	85.185	0.670
Padé22-SSVM		84.615	0.074	85.556	0.517
Padé33-SSVM		85.556	0.059	86.296	0.462