

	Accuracy	F1	Model	Subject	Fold
0	0,96	0,96	Default algorithm	50	0
1	0,97	0,97	Pre-trained CAE	50	0
2	0,98	0,98	Default algorithm	50	1
3	0,99	0,99	Pre-trained CAE	50	1
4	0,95	0,94	Default algorithm	50	2
5	0,96	0,95	Pre-trained CAE	50	2
6	0,97	0,97	Default algorithm	50	3
7	0,98	0,97	Pre-trained CAE	50	3
8	0,96	0,96	Default algorithm	50	4
9	0,97	0,96	Pre-trained CAE	50	4
10	0,97	0,97	Default algorithm	100	0
11	0,98	0,98	Pre-trained CAE	100	0
12	0,89	0,78	Default algorithm	100	1
13	0,99	0,99	Pre-trained CAE	100	1
14	0,97	0,96	Default algorithm	100	2
15	0,98	0,97	Pre-trained CAE	100	2
16	0,98	0,97	Default algorithm	100	3
17	0,98	0,98	Pre-trained CAE	100	3
18	0,96	0,96	Default algorithm	100	4
19	0,97	0,97	Pre-trained CAE	100	4
20	0,98	0,98	Default algorithm	200	0
21	0,99	0,98	Pre-trained CAE	200	0
22	0,99	0,99	Default algorithm	200	1
23	0,99	0,99	Pre-trained CAE	200	1
24	0,96	0,96	Default algorithm	200	2
25	0,98	0,98	Pre-trained CAE	200	2
26	0,98	0,98	Default algorithm	200	3
27	0,98	0,98	Pre-trained CAE	200	3
28	0,98	0,97	Default algorithm	200	4
29	0,98	0,98	Pre-trained CAE	200	4
30	0,98	0,98	Default algorithm	global	0
31	0,99	0,99	Pre-trained CAE	global	0
32	0,99	0,99	Default algorithm	global	1
33	0,99	0,99	Pre-trained CAE	global	1
34	0,98	0,98	Default algorithm	global	2
35	0,99	0,99	Pre-trained CAE	global	2
36	0,98	0,98	Default algorithm	global	3
37	0,99	0,99	Pre-trained CAE	global	3
38	0,98	0,98	Default algorithm	global	4
39	0,99	0,98	Pre-trained CAE	global	4

Supplementary Table S4 - Classification performance (Accuracy and F1-score) of models trained on HCP test dataset with different subsamples in a 5-fold cross-validation scheme for task classification.