Model	Test subject	validation accuracy	Test accuracy	Left MI PPV	Right MI PPV	Risky error	Non-default parameter settings
CSP + SVM	B	60.39 +- 1.04	38.57	40.77	38.94	36.55	10 CSP components | RBF SVM with C 10 and gamma auto
AutoFreq + CSP + LDA	B	58.53 +- 1.66	38.99	41.94	36.26	50.52	1 - 26 Hz filter | 10 CSP components | LDA LSQR solver
CSP + RF	B	59.83 +- 0.68	39.09	40.06	38.66	42.63	10 CSP components | RF with None max depth, 0.2 max features, 2 min samples split and 500 estimators
CSP + LDA	B	56.62 +- 1.29	39.61	42.24	41.22	32.66	10 CSP components | SVD LDA with 0.0001 tol
ShallowConvNet	B	0.7625 @ epoch 545	59.69	60.94	60.44	27.92	0.4 dropout
DeepConvNet	B	0.7543 @ epoch 1554	62.50	**77.68**	**69.55**	**13.13**	/
BiConvLSTM EEGNet	B	0.7497 @ epoch 82	62.60	61.94	64.57	26.25	40 LSTM filters, kernel size 9, 0.7 LSTM dropout
EEGNet	B	0.7654 @ epoch 92	64.79	67.09	65.96	22.60	/
BiLSTM EEGNet	B	0.7648 @ epoch 128	**66.35**	71.24	64.02	22.40	/
CSP + SVM	C	51.69 +- 44.11	44.11	51.88	41.49	37.93	10 CSP components | RBF SVM with C 10 and gamma scale
AutoFreq + CSP + LDA	C	47.91 +- 0.19	44.32	67.28	41.33	29.21	2 - 34 Hz filter | 10 CSP components | LDA SVD solver with 0.0001 tol
CSP + RF	C	50.40 +- 1.97	44.53	52.17	40.94	40.95	10 CSP components | RF with None max depth, sqrt max features, 10 min samples split and 250 estimators
CSP + LDA	C	47.81 +- 1.85	47.31	61.58	42.47	35.39	10 CSP components | lsqr LDA
BiLSTM EEGNet	C	0.7486 @ epoch 6	59.85	72.79	**65.52**	**16.37**	/
EEGNet	C	0.6993 @ epoch 458	59.96	**77.65**	51.13	28.57	/
ShallowConvNet	C	0.7196 @ epoch 57	60.58	72.89	51.98	27.95	0.4 dropout
DeepConvNet	C	0.7132 @ epoch 990	61.94	75.51	58.40	23.04	/
BiConvLSTM EEGNet	C	0.7329 @ epoch 50	**62.04**	77.29	54.74	24.82	40 LSTM filters, kernel size 9, 0.7 LSTM dropout
CSP + SVM	E	57.36 +- 2.20	33.81	34.25	30.74	65.95	10 CSP components | RBF SVM with C 1 and gamma scale
CSP + RF	E	57.20 +- 2.74	37.08	38.08	35.82	62.47	10 CSP components | RF with 10 max depth, log2 max features, 10 min samples split and 250 estimators
AutoFreq + CSP + LDA	E	55.03 +- 1.68	40.77	42.47	38.91	58.15	2 - 28 Hz filter | 10 CSP components | LDA SVD solver with 0.0001 tol
CSP + LDA	E	55.67 +- 2.87	40.98	44.31	38.72	58.84	10 CSP components | SVD LDA with 0.0001 tol
ShallowConvNet	E	0.7841 @ epoch 22	52.67	51.23	52.10	43.46	0.4 dropout
EEGNet	E	0.7454 @ epoch 889	64.19	68.45	73.95	17.59	/
BiLSTM EEGNet	E	0.7182 @ epoch 72	65.34	68.03	75.24	17.70	/
BiConvLSTM EEGNet	E	0.724 @ epoch 240	66.18	**74.91**	**84.36**	**10.68**	40 LSTM filters, kernel size 9, 0.7 LSTM dropout
DeepConvNet	E	0.7656 @ epoch 835	**66.81**	67.29	83.87	16.54	/