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Table 3: WS classification accuracy for all subjects, session

Sub.	Session	CSP	FBCSP	FBCNet	EEGNet	deep ConvNets	Sub.	Session	CSP	FBCSP	FBCNet	EEGNet	deep ConvNet
1	1	0.550	0.730	0.780	0.570	0.600	14	4	0.537	0.499	0.672	0.778	0.728
	2	0.470	0.620	0.630	0.550	0.500		5	0.510	0.780	0.900	0.910	0.930
	3	0.566	0.688	0.678	0.617	0.568		1	0.500	0.560	0.670	0.620	0.620
	4	0.749	0.809	0.850	0.476	0.507		2	0.472	0.527	0.452	0.538	0.486
	5	0.587	0.689	0.707	0.529	0.447		3	0.547	0.567	0.642	0.556	0.600
2	1	0.738	0.871	0.761	0.870	0.860	15	4	0.423	0.502	0.458	0.739	0.619
	2	0.782	0.918	0.550	0.549	0.733		5	0.520	0.570	0.560	0.570	0.590
	3	0.600	0.510	0.610	0.550	0.520		1	0.540	0.420	0.540	0.510	0.510
	4	0.840	0.850	0.950	0.820	0.940		2	0.538	0.692	0.662	0.572	0.622
	5	0.758	0.830	0.829	0.751	0.824		3	0.485	0.376	0.407	0.518	0.551
3	1	0.500	0.567	0.600	0.540	0.636	16	4	0.538	0.692	0.662	0.572	0.622
	2	0.330	0.460	0.630	0.610	0.650		5	0.514	0.546	0.661	0.591	0.571
	3	0.544	0.558	0.478	0.556	0.568		1	0.760	0.640	0.820	0.630	0.540
	4	0.500	0.540	0.650	0.540	0.650		2	0.570	0.730	0.820	0.590	0.590
	5	0.560	0.540	0.690	0.730	0.600		3	0.610	0.650	0.570	0.630	0.610
4	1	0.433	0.649	0.483	0.549	0.567	17	4	0.683	0.798	0.800	0.483	0.619
	2	0.582	0.641	0.659	0.688	0.578		5	0.361	0.582	0.603	0.517	0.582
	3	0.539	0.553	0.571	0.639	0.660		1	0.640	0.760	0.820	0.760	0.790
	4	0.560	0.510	0.580	0.680	0.550		2	0.490	0.570	0.560	0.700	0.480
	5	0.590	0.770	0.780	0.540	0.790		3	0.527	0.546	0.661	0.591	0.571
5	1	0.522	0.620	0.542	0.548	0.532	18	4	0.760	0.640	0.820	0.630	0.540
	2	0.950	0.960	0.980	0.940	0.930		5	0.550	0.500	0.612	0.519	0.569
	3	0.570	0.694	0.580	0.493	0.561		1	0.513	0.481	0.614	0.534	0.604
	4	0.607	0.616	0.677	0.587	0.477		2	0.480	0.430	0.570	0.680	0.670
	5	0.517	0.463	0.528	0.472	0.563		3	0.390	0.580	0.740	0.680	0.660
6	1	0.616	0.894	0.990	0.864	0.919	19	4	0.570	0.730	0.820	0.590	0.590
	2	0.776	0.861	0.938	0.958	0.958		5	0.610	0.650	0.570	0.630	0.610
	3	0.692	0.822	0.916	0.801	0.822		1	0.626	0.571	0.699	0.589	0.636
	4	0.794	0.938	0.922	0.934	0.891		2	0.683	0.798	0.800	0.483	0.619
	5	0.674	0.752	0.877	0.844	0.843		3	0.694	0.791	0.884	0.830	0.851
7	1	0.640	0.610	0.600	0.590	0.580	20	4	0.489	0.548	0.597	0.584	0.609
	2	0.460	0.520	0.570	0.530	0.520		5	0.591	0.449	0.617	0.758	0.637
	3	0.519	0.576	0.573	0.560	0.499		1	0.694	0.899	0.931	0.933	0.900
	4	0.400	0.622	0.617	0.672	0.676		2	0.870	0.970	0.990	0.990	0.990
	5	0.500	0.770	0.800	0.850	0.760		3	0.460	0.560	0.540	0.490	0.560
8	1	0.530	0.680	0.700	0.770	0.750	21	4	0.900	0.970	1.000	1.000	0.990
	2	0.507	0.461	0.489	0.689	0.657		5	0.890	0.980	1.000	1.000	0.980
	3	0.518	0.588	0.483	0.900	0.889		1	0.720	0.742	0.891	0.937	0.926
	4	0.519	0.510	0.613	0.497	0.447		2	0.506	0.564	0.657	0.626	0.639
	5	0.480	0.460	0.570	0.540	0.480		3	0.632	0.550	0.851	0.763	0.796
9	1	0.461	0.634	0.554	0.602	0.511	22	4	0.790	0.670	0.920	0.930	0.920
	2	0.410	0.710	0.730	0.690	0.620		5	0.500	0.629	0.861	0.831	0.854
	3	0.490	0.480	0.630	0.450	0.530		1	0.463	0.545	0.575	0.510	0.408
	4	0.526	0.428	0.563	0.543	0.510		2	0.700	0.700	0.860	0.810	0.780
	5	0.574	0.739	0.789	0.634	0.634		3	0.530	0.540	0.530	0.620	0.540
10	1	0.550	0.563	0.617	0.540	0.585	23	4	0.650	0.840	0.920	0.930	0.900
	2	0.541	0.641	0.619	0.341	0.479		5	0.508	0.428	0.517	0.538	0.567
	3	0.680	0.890	0.690	0.640	0.630		1	0.636	0.689	0.648	0.779	0.717
	4	0.540	0.840	0.680	0.630	0.650		2	0.563	0.637	0.678	0.678	0.721
	5	0.634	0.741	0.634	0.567	0.579		3	0.596	0.624	0.828	0.809	0.798
11	1	0.530	0.590	0.590	0.650	0.600	24	4	0.610	0.750	0.770	0.820	0.850
	2	0.431	0.448	0.422	0.656	0.691		5	0.504	0.653	0.677	0.690	0.782
	3	0.510	0.640	0.630	0.640	0.620		1	0.457	0.450	0.484	0.564	0.521
	4	0.500	0.730	0.690	0.620	0.560		2	0.535	0.493	0.668	0.561	0.619
	5	0.620	0.710	0.780	0.560	0.520		3	0.465	0.584	0.661	0.679	0.604
12	1	0.360	0.480	0.580	0.470	0.590	25	4	0.491	0.642	0.714	0.583	0.636
	2	0.331	0.540	0.562	0.450	0.526		5	0.530	0.600	0.520	0.620	0.640
	3	0.512	0.580	0.502	0.507	0.444		1	0.536	0.537	0.589	0.526	0.479
	4	0.542	0.477	0.597	0.613	0.518		2	0.638	0.716	0.891	0.563	0.584
	5	0.431	0.427	0.506	0.492	0.493		3	0.627	0.776	0.882	0.478	0.492
13	1	0.590	0.730	0.840	0.800	0.750	Average	4	0.738	0.691	0.726	0.499	0.476
	2	0.469	0.427	0.552	0.652	0.672		5	0.670	0.780	0.880	0.570	0.390
	3	0.730	0.860	0.930	0.940	0.920			0.573	0.643	0.688	0.650	0.648

Table 4: CS classification accuracy for all subjects, session

Subjects/ Session	EEGNet				deep ConvNets				FBCNet			
	2	3	4	5	2	3	4	5	2	3	4	5
1	0.470	0.465	0.566	0.500	0.460	0.515	0.505	0.404	0.480	0.495	0.505	0.532
2	0.579	0.480	0.630	0.663	0.558	0.440	0.540	0.621	0.579	0.460	0.500	0.495
3	0.520	0.554	0.630	0.480	0.590	0.489	0.540	0.500	0.500	0.522	0.500	0.480
4	0.629	0.527	0.510	0.530	0.505	0.549	0.460	0.550	0.423	0.505	0.420	0.500
5	0.590	0.441	0.525	0.438	0.410	0.452	0.556	0.438	0.510	0.527	0.525	0.517
6	0.628	0.484	0.793	0.663	0.585	0.453	0.815	0.642	0.511	0.495	0.587	0.484
7	0.500	0.573	0.587	0.570	0.490	0.573	0.554	0.510	0.500	0.521	0.543	0.560
8	0.500	0.506	0.490	0.450	0.553	0.551	0.469	0.510	0.479	0.618	0.500	0.510
9	0.480	0.530	0.521	0.525	0.520	0.520	0.500	0.515	0.500	0.480	0.521	0.465
10	0.479	0.460	0.370	0.515	0.585	0.450	0.350	0.485	0.500	0.570	0.500	0.515
11	0.489	0.590	0.510	0.610	0.553	0.580	0.450	0.580	0.479	0.490	0.480	0.500
12	0.462	0.536	0.494	0.470	0.505	0.546	0.494	0.434	0.495	0.485	0.540	0.470
13	0.617	0.900	0.453	0.560	0.564	0.830	0.547	0.710	0.553	0.530	0.505	0.530
14	0.453	0.598	0.522	0.480	0.453	0.587	0.478	0.510	0.421	0.467	0.478	0.460
15	0.589	0.482	0.526	0.643	0.547	0.365	0.537	0.469	0.463	0.494	0.463	0.510
16	0.550	0.580	0.516	0.571	0.530	0.540	0.526	0.560	0.550	0.500	0.495	0.473
17	0.380	0.551	0.520	0.453	0.370	0.582	0.590	0.484	0.500	0.500	0.530	0.442
18	0.520	0.350	0.450	0.510	0.550	0.360	0.450	0.440	0.500	0.490	0.540	0.490
19	0.621	0.521	0.533	0.473	0.495	0.553	0.533	0.613	0.495	0.521	0.489	0.473
20	0.400	0.480	0.700	0.520	0.580	0.550	0.640	0.460	0.640	0.480	0.800	0.540
21	0.586	0.785	0.700	0.615	0.566	0.785	0.650	0.719	0.606	0.495	0.540	0.615
22	0.640	0.490	0.520	0.516	0.630	0.510	0.520	0.473	0.500	0.500	0.430	0.484
23	0.457	0.606	0.630	0.608	0.543	0.535	0.520	0.546	0.511	0.525	0.550	0.495
24	0.549	0.590	0.480	0.420	0.451	0.566	0.480	0.480	0.537	0.482	0.520	0.520
25	0.489	0.500	0.466	0.470	0.522	0.500	0.545	0.520	0.511	0.511	0.568	0.500
Average	0.527	0.543	0.546	0.530	0.525	0.535	0.530	0.527	0.510	0.506	0.521	0.502

Table 5a: CSA classification accuracy for all subjects, session

Subject/ Session	0% adaptation					30% adaptation				
	1	2	3	4	5	1	2	3	4	5
1	0.600	0.510	0.576	0.474	0.520	0.600	0.630	0.566	0.544	0.527
2	0.500	0.538	0.500	0.510	0.621	0.490	0.600	0.550	0.610	0.747
3	0.543	0.490	0.543	0.520	0.510	0.683	0.690	0.489	0.590	0.620
4	0.564	0.609	0.593	0.580	0.470	0.544	0.617	0.647	0.630	0.510
5	0.522	0.540	0.471	0.516	0.429	0.454	0.940	0.609	0.578	0.539
6	0.778	0.652	0.486	0.748	0.684	0.832	0.907	0.840	0.922	0.822
7	0.490	0.460	0.520	0.533	0.580	0.600	0.510	0.460	0.476	0.740
8	0.530	0.562	0.607	0.520	0.500	0.690	0.657	0.811	0.510	0.490
9	0.500	0.540	0.530	0.523	0.446	0.612	0.530	0.540	0.532	0.504
10	0.496	0.487	0.490	0.500	0.452	0.494	0.477	0.650	0.550	0.429
11	0.500	0.522	0.540	0.520	0.520	0.500	0.586	0.550	0.540	0.570
12	0.600	0.560	0.536	0.514	0.515	0.660	0.582	0.494	0.563	0.557
13	0.520	0.533	0.880	0.636	0.880	0.860	0.586	0.950	0.746	0.970
14	0.500	0.517	0.518	0.652	0.640	0.600	0.511	0.596	0.598	0.700
15	0.500	0.506	0.463	0.506	0.511	0.600	0.548	0.411	0.548	0.592
16	0.490	0.530	0.500	0.524	0.517	0.450	0.630	0.760	0.554	0.638
17	0.760	0.550	0.521	0.540	0.506	0.720	0.580	0.610	0.570	0.640
18	0.489	0.780	0.540	0.690	0.710	0.484	0.810	0.700	0.720	0.780
19	0.602	0.587	0.510	0.543	0.606	0.689	0.714	0.819	0.682	0.757
20	0.833	0.950	0.500	1.000	0.920	0.856	0.990	0.470	0.990	0.980
21	0.832	0.574	0.557	0.790	0.592	0.892	0.668	0.828	0.840	0.853
22	0.506	0.610	0.610	0.780	0.664	0.593	0.890	0.600	0.930	0.592
23	0.741	0.811	0.799	0.500	0.702	0.789	0.800	0.806	0.920	0.794
24	0.543	0.596	0.600	0.438	0.490	0.584	0.681	0.660	0.593	0.560
25	0.457	0.587	0.541	0.475	0.520	0.579	0.542	0.564	0.503	0.480
Average	0.576	0.584	0.557	0.581	0.580	0.634	0.667	0.639	0.650	0.656

1 **Table 5b: CSA classification accuracy for all subjects, session**

Subject/ Session	50% adaptation					70% adaptation				
	1	2	3	4	5	1	2	3	4	5
1	0.570	0.520	0.757	0.607	0.514	0.570	0.500	0.807	0.557	0.556
2	0.816	0.806	0.710	0.770	0.728	0.654	0.569	0.710	0.850	0.924
3	0.607	0.790	0.511	0.570	0.610	0.748	0.590	0.684	0.640	0.660
4	0.553	0.718	0.659	0.710	0.710	0.507	0.734	0.560	0.750	0.630
5	0.546	0.930	0.564	0.556	0.597	0.467	0.950	0.592	0.606	0.763
6	0.906	0.968	0.914	0.889	0.903	0.819	0.968	0.958	0.846	0.936
7	0.560	0.570	0.491	0.543	0.800	0.550	0.730	0.584	0.452	0.820
8	0.690	0.720	0.899	0.406	0.490	0.720	0.650	0.943	0.550	0.520
9	0.660	0.770	0.580	0.640	0.754	0.638	0.880	0.800	0.521	0.827
10	0.626	0.589	0.670	0.660	0.668	0.671	0.602	0.760	0.770	0.402
11	0.650	0.770	0.680	0.550	0.670	0.680	0.619	0.810	0.770	0.580
12	0.630	0.604	0.606	0.560	0.683	0.730	0.604	0.693	0.564	0.719
13	0.850	0.596	0.990	0.829	0.940	0.840	0.667	0.970	0.758	0.970
14	0.670	0.461	0.740	0.619	0.780	0.560	0.681	0.771	0.851	0.710
15	0.650	0.588	0.490	0.578	0.653	0.620	0.620	0.565	0.640	0.582
16	0.700	0.660	0.770	0.596	0.628	0.640	0.670	0.730	0.660	0.780
17	0.820	0.610	0.642	0.620	0.662	0.860	0.650	0.659	0.720	0.659
18	0.601	0.770	0.800	0.850	0.840	0.751	0.800	0.690	0.850	0.850
19	0.741	0.683	0.883	0.750	0.676	0.634	0.706	0.947	0.761	0.809
20	0.807	0.990	0.530	1.000	1.000	0.789	0.990	0.680	0.990	1.000
21	0.881	0.678	0.859	0.880	0.861	0.936	0.658	0.924	0.910	0.914
22	0.704	0.860	0.700	0.950	0.618	0.446	0.910	0.730	0.960	0.613
23	0.813	0.852	0.847	0.930	0.844	0.883	0.853	0.837	0.910	0.886
24	0.575	0.722	0.758	0.683	0.570	0.727	0.685	0.774	0.632	0.530
25	0.668	0.698	0.643	0.665	0.620	0.825	0.630	0.636	0.660	0.700
Average	0.692	0.717	0.708	0.696	0.713	0.691	0.717	0.753	0.727	0.734

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3 **Table 5c: CSA classification accuracy for all subjects, session**

Subject/ Session	90% adaptation					100% adaptation				
	1	2	3	4	5	1	2	3	4	5
1	0.580	0.710	0.908	0.517	0.820	0.580	0.690	0.888	0.776	0.568
2	0.970	0.603	0.750	0.930	0.927	0.970	0.558	0.810	0.930	0.970
3	0.468	0.640	0.719	0.590	0.650	0.740	0.930	0.723	0.580	0.920
4	0.851	0.660	0.724	0.550	0.920	0.831	0.926	0.571	0.940	0.900
5	0.488	0.980	0.783	0.666	0.829	0.846	0.970	0.809	0.666	0.908
6	0.949	0.958	0.958	0.967	0.958	0.949	0.883	0.874	0.978	0.969
7	0.840	0.870	0.698	0.676	0.840	0.860	0.470	0.659	0.774	0.850
8	0.860	0.622	0.833	0.470	0.690	0.770	0.778	0.978	0.553	0.540
9	0.722	0.700	0.850	0.532	0.646	0.673	0.920	0.860	0.602	0.536
10	0.738	0.476	0.750	0.500	0.454	0.864	0.704	0.750	0.770	0.466
11	0.780	0.872	0.930	0.590	0.550	0.940	0.916	0.700	0.900	0.910
12	0.620	0.771	0.772	0.750	0.760	0.770	0.762	0.556	0.621	0.807
13	0.880	0.892	1.000	0.938	1.000	0.840	0.607	1.000	0.960	1.000
14	0.750	0.607	0.694	0.773	0.790	0.850	0.937	0.907	0.786	0.690
15	0.620	0.673	0.593	0.694	0.683	0.620	0.557	0.588	0.548	0.591
16	0.460	0.670	0.660	0.831	0.802	0.570	0.880	0.780	0.704	0.833
17	0.810	0.680	0.588	0.610	0.641	0.920	0.670	0.623	0.610	0.800
18	0.692	0.870	0.900	0.800	0.850	0.844	0.860	0.870	0.930	0.880
19	0.729	0.706	0.980	0.764	0.618	0.833	0.909	0.980	0.631	0.909
20	0.989	0.990	0.710	0.990	1.000	0.978	0.980	0.550	0.990	1.000
21	0.904	0.856	0.904	0.920	0.916	0.970	0.709	0.980	0.980	0.874
22	0.658	0.810	0.810	0.940	0.581	0.493	0.950	0.850	0.990	0.809
23	0.867	0.877	0.858	0.950	0.866	0.918	0.877	0.828	0.940	0.908
24	0.605	0.810	0.757	0.742	0.800	0.620	0.644	0.910	0.727	0.600
25	0.793	0.807	0.583	0.479	0.560	0.526	0.532	0.593	0.921	0.510
Average	0.745	0.764	0.789	0.727	0.766	0.791	0.785	0.785	0.792	0.790

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