

Supplements to "Predictive Markers for AD in a Multi-Modality Framework: An Analysis of MCI Progression in the ADNI Population"

Appendix

TABLE 8 Test-set accuracy results for each of the single kernels derived from baseline FDG-PET scans used in our experiments. See Figure 1(a).

Number of features	Linear	Quadratic	Gaussian
250,000	0.84548	0.85548	0.84371
150,000	0.84374	0.84783	0.84136
100,000	0.84015	0.84755	0.83932
65,000	0.84098	0.8552	0.83866
25,000	0.79174	0.8429	0.79457
10,000	0.75126	0.74629	0.76141
5000	0.74149	0.67755	0.75295
2000	0.74351	0.6152	0.74924

TABLE 9 Test-set accuracy results for each of the single kernels derived from VBM-processed MRI scans used in our experiments. See Figure 1(b).

Number of features	Linear	Quadratic	Gaussian
250,000	0.79924	0.80528	0.79861
150,000	0.79184	0.8152	0.79177
100,000	0.79301	0.8077	0.79328
65,000	0.79533	0.78323	0.79553
25,000	0.79038	0.76843	0.79419
10,000	0.79323	0.76331	0.79561
5000	0.79081	0.7479	0.79679
2000	0.81674	0.75578	0.82088

TABLE 10 Test-set accuracy results for each of the single kernels derived from 24th-month FDG-PET scans used in our experiments. See Figure 1(c).

Number of features	Linear	Quadratic	Gaussian
250,000	0.88152	0.87662	0.8771
150,000	0.87596	0.8578	0.87008
100,000	0.85949	0.84326	0.85732
65,000	0.86018	0.84116	0.86222
25,000	0.85588	0.8477	0.85735
10,000	0.82581	0.7597	0.82611
5000	0.81222	0.6954	0.81306
2000	0.81497	0.62904	0.80957

TABLE 11 Test-set accuracy results for each of the single kernels derived from TBM-processed MRI scans used in our experiments. See Figure 1(d).

Number of features	Linear	Quadratic	Gaussian
250,000	0.8203	0.81189	0.82
150,000	0.82659	0.81475	0.82689
100,000	0.83449	0.82321	0.8348
65,000	0.8401	0.8329	0.84038
25,000	0.84578	0.82606	0.84578
10,000	0.83566	0.81482	0.83566
5000	0.81141	0.80232	0.81144
2000	0.79975	0.78457	0.79889

TABLE 12 AD subjects used in the study.

1059	0221	1341	0316	1339
0010	0053	0183	1205	0991
0343	1109	0543	1171	1307
0850	1056	0554	0147	0400
0889	1281	1285	0341	0577
0760	0474	1371	1373	1379
0535	0690	0730	1164	0470
1144	1062	1157	0374	0979
1221	0431	0754	0167	0216
0266	0497	1041		

Table 8: AD subjects included in the study

TABLE 13 CN subjects used in the study.

0223	0610	0005	0016	0023
0637	1133	0502	0359	0097
0883	0647	0014	0066	0096
0130	1063	0074	0120	0845
0866	0618	0741	0048	0555
0813	0327	0454	0467	0262
0898	1002	0779	0818	0934
0768	0315	0311	0386	0090
0352	0533	0534	0047	0967
0173	0416	0648	0657	0259
0230	0272	0500	0522	0232
0123	0283	0301	0459	0686
0972	1194	1195	1197	1202
1203				

Table 9: CN subjects included in the study

TABLE 14 MCI subjects used in the study.

1057	1074	1122	0222	0546
1224	0101	0128	0293	0344
0414	0698	0326	0362	0861
1282	0634	0932	1165	1175
0240	1186	1028	1092	0057
0142	0155	0141	0231	0424
0626	0544	0961	1351	0408
1073	1215	1318	0294	0214
0978	0511	0513	0567	0723
0906	0033	0204	0292	0997
0656	0673	0748	0945	0976
1135	1240	0150	0377	0552
0566	1078	0679	1010	1260
1346	0389	0621	0919	0464
0941	1007	1265	1299	1211
1380	0746	0909	1188	1314
0051	0054	0291	0551	1034
0995	0950	1114	0378	1106
1118	0361	0865	1077	0112
0394	1032	0135	0188	0200
0205	0225	0227	0258	0608
1406	0285	0289	0783	0695
0443	0481	0669	0722	0800
0973	0994	1414	1311	

Table 10: MCI subjects included in the study