

APPENDIX B

SAMPLES OF DATA OF OUR OWN COLLECTED DATASET

This appendix contains samples of data of our own collected dataset. It shows three coordinates of accelerometer sensor of smartphone of user 1 when he was performing the four complex activities of experiment during first try. The dataset consists of 20 users perform four complex activities twice, while smartphone with accelerometer and gyroscope sensors measures their motion. The sample contains following columns:

Time: It shows time of experiment.

AccX, AccY, and AccZ: They are values of accelerometer coordinates.

Low, middle, and low level: They presents the low and middle hierarchy of high (complex) activity.

Exp: Number times of trying the scenario of experiment. It is 1 or 2.

User: Number of user.

Time	AccX	AccY	AccZ	Low level	Middle	High	Exp	User
7169374	1.075029	9.423865	1.989642	1	1	1	1	1
7169394	1.075029	9.423865	1.989642	1	1	1	1	1
7169414	1.075029	9.423865	1.989642	1	1	1	1	1
7169434	2.066259	8.825297	2.461314	1	1	1	1	1
7169453	1.711906	8.992896	2.660039	1	1	1	1	1
7169474	1.587404	9.229929	2.633702	1	1	1	1	1
7169494	1.690358	9.325701	2.564268	1	1	1	1	1
7169513	1.867534	9.270632	2.490046	1	1	1	1	1
7169533	2.008796	9.335278	2.449343	1	1	1	1	1
7169554	2.027951	9.26345	2.427795	1	1	1	1	1
7169573	2.037528	9.232324	2.403852	1	1	1	1	1

7169594	2.001614	9.234718	2.420612	1	1	1	1	1
7169614	1.953728	9.268238	2.415823	1	1	1	1	1
7169633	1.857957	9.244295	2.427795	1	1	1	1	1
7169653	1.747821	9.251478	2.367938	1	1	1	1	1
7169674	1.853169	9.246689	2.286532	1	1	1	1	1
7169693	1.956123	9.323306	2.224281	1	1	1	1	1
7169713	2.008796	9.387952	2.142876	1	1	1	1	1
7169734	2.190762	9.385557	2.12851	1	1	1	1	1
7169753	1.84838	9.11261	2.042316	1	1	1	1	1
7169773	2.320052	9.354432	2.047105	1	1	1	1	1
7169796	1.94894	9.364009	2.042316	1	1	1	1	1
7169816	1.939363	9.361614	2.171607	1	1	1	1	1
7169836	1.953728	9.364009	2.135693	1	1	1	1	1
7169856	1.963305	9.37598	2.133299	1	1	1	1	1
7169875	1.989642	9.354432	2.171607	1	1	1	1	1
7169895	2.008796	9.356826	2.22907	1	1	1	1	1
7169916	2.032739	9.354432	2.219493	1	1	1	1	1
7169935	2.066259	9.352037	2.22907	1	1	1	1	1
7169955	2.049499	9.347249	2.255407	1	1	1	1	1
7169976	2.020768	9.344854	2.298504	1	1	1	1	1
7169995	2.039922	9.342461	2.31287	1	1	1	1	1
7170016	2.047105	9.306546	2.27935	1	1	1	1	1
7170036	2.044711	9.25866	2.27935	1	1	1	1	1
7170054	2.018374	9.251478	2.274561	1	1	1	1	1
7170075	1.989642	9.28021	2.24583	1	1	1	1	1
7170094	1.980065	9.277815	2.250618	1	1	1	1	1
7170115	1.936968	9.268238	2.303292	1	1	1	1	1
7170135	1.927391	9.246689	2.303292	1	1	1	1	1
7197198	0.782928	9.450203	1.920208	3	1	2	1	1
7197218	0.806871	9.469357	1.903448	3	1	2	1	1
7197238	0.787716	9.565128	1.893871	3	1	2	1	1
7197258	0.794899	9.632168	1.901054	3	1	2	1	1
7197278	0.749408	9.591465	1.927391	3	1	2	1	1
7197298	0.751802	9.512454	1.903448	3	1	2	1	1
7197318	0.818842	9.488511	1.884294	3	1	2	1	1
7197338	0.821236	9.486116	1.853169	3	1	2	1	1
7197357	0.814053	9.471751	1.886689	3	1	2	1	1
7197377	0.792505	9.526819	1.929785	3	1	2	1	1
7197398	0.782928	9.531608	1.939363	3	1	2	1	1
7197417	0.818842	9.531608	1.913026	3	1	2	1	1
7197438	0.828419	9.555551	1.910631	3	1	2	1	1
7197458	0.780534	9.524426	1.93218	3	1	2	1	1
7197476	0.797293	9.507666	1.934574	3	1	2	1	1
7197497	0.845179	9.478934	1.884294	3	1	2	1	1
7197518	0.802082	9.526819	1.877111	3	1	2	1	1

7197537	0.794899	9.529214	1.922603	3	1	2	1	1
7197558	0.773351	9.529214	1.922603	3	1	2	1	1
7197578	0.773351	9.524426	1.920208	3	1	2	1	1
7197597	0.792505	9.534002	1.905843	3	1	2	1	1
7197617	0.794899	9.526819	1.913026	3	1	2	1	1
7197638	0.794899	9.538791	1.917814	3	1	2	1	1
7197658	0.806871	9.502876	1.908237	3	1	2	1	1
7197678	0.804476	9.502876	1.901054	3	1	2	1	1
7197698	0.811659	9.519637	1.886689	3	1	2	1	1
7197717	0.821236	9.522031	1.910631	3	1	2	1	1
7197737	0.821236	9.536397	1.901054	3	1	2	1	1
7197758	0.802082	9.517242	1.913026	3	1	2	1	1
7197777	0.802082	9.538791	1.896266	3	1	2	1	1
7197797	0.797293	9.507666	1.908237	3	1	2	1	1
7197818	0.792505	9.522031	1.924997	3	1	2	1	1
7197837	0.804476	9.510059	1.908237	3	1	2	1	1
7197857	0.797293	9.519637	1.893871	3	1	2	1	1
7197878	0.816448	9.507666	1.905843	3	1	2	1	1
7197897	0.787716	9.507666	1.936968	3	1	2	1	1
7197917	0.792505	9.534002	1.927391	3	1	2	1	1
7197938	0.804476	9.529214	1.908237	3	1	2	1	1
7197957	0.816448	9.495694	1.891477	3	1	2	1	1
7197977	0.809265	9.536397	1.927391	3	1	2	1	1
7197998	0.790111	9.531608	1.905843	3	1	2	1	1
7198017	0.835602	9.512454	1.893871	3	1	2	1	1
7198037	0.835602	9.505271	1.913026	3	1	2	1	1
7198057	0.852362	9.493299	1.903448	3	1	2	1	1
7198075	0.849968	9.486116	1.917814	3	1	2	1	1
7243596	8.58587	0.351958	3.991256	2	1	3	1	1
7243615	8.832479	0.105348	4.022382	2	1	3	1	1
7243633	8.593052	0.141262	4.01041	2	1	3	1	1
7243656	8.382356	0.442941	3.744646	2	1	3	1	1
7243673	8.803748	0.531529	3.754223	2	1	3	1	1
7243695	8.978531	0.423787	3.744646	2	1	3	1	1
7243716	8.93304	0.409421	3.344802	2	1	3	1	1
7243735	9.273026	0.260976	3.428602	2	1	3	1	1
7243753	9.196409	0.22985	3.402265	2	1	3	1	1
7243776	8.885154	0.335198	3.39987	2	1	3	1	1
7243792	8.849239	0.466884	3.423813	2	1	3	1	1
7243815	9.033599	0.641666	3.280156	2	1	3	1	1
7243836	9.29218	0.617723	3.246637	2	1	3	1	1
7243853	9.141341	0.754197	3.167626	2	1	3	1	1
7243875	8.945011	1.079818	3.023969	2	1	3	1	1
7243896	9.25866	1.096578	2.688771	2	1	3	1	1
7243913	9.761458	0.936161	2.762993	2	1	3	1	1

7243934	9.629773	0.984047	2.786936	2	1	3	1	1
7243956	9.222747	1.336005	2.952141	2	1	3	1	1
7243973	9.040782	1.743032	2.894678	2	1	3	1	1
7243995	9.364009	1.901054	2.949747	2	1	3	1	1
7244016	9.557945	1.996825	2.899467	2	1	3	1	1
7244034	9.517242	2.114145	2.911438	2	1	3	1	1
7244055	9.256267	2.336812	2.830033	2	1	3	1	1
7244076	9.356826	2.241041	2.849187	2	1	3	1	1
7244093	9.225141	2.09499	2.82285	2	1	3	1	1
7244113	9.035994	2.106962	2.779753	2	1	3	1	1
7244135	9.081485	2.17879	3.000026	2	1	3	1	1
7244152	9.047964	2.389486	2.995238	2	1	3	1	1
7244174	9.093455	2.652857	3.143683	2	1	3	1	1
7317010	4.283358	7.92505	3.275368	2	1	4	1	1
7317032	4.175615	8.212362	3.18678	2	1	4	1	1
7317050	4.003228	8.248277	3.158048	2	1	4	1	1
7317070	3.852388	7.996878	3.246637	2	1	4	1	1
7317090	3.708732	8.118986	3.311282	2	1	4	1	1
7317110	3.593807	8.341654	3.067066	2	1	4	1	1
7317130	3.720703	8.300951	2.935381	2	1	4	1	1
7317152	3.854782	8.20518	2.971295	2	1	4	1	1
7317170	3.866754	8.147717	2.880313	2	1	4	1	1
7317190	3.919428	8.322499	2.858764	2	1	4	1	1
7317210	3.962525	8.260248	2.880313	2	1	4	1	1
7317230	3.651269	8.454185	2.985661	2	1	4	1	1
7317250	3.45015	8.6984	3.117346	2	1	4	1	1
7317272	3.43339	8.686429	3.17002	2	1	4	1	1
7317290	3.701549	8.789383	3.112557	2	1	4	1	1
7317310	3.981679	8.964165	3.002421	2	1	4	1	1
7317332	4.063084	9.012051	3.014392	2	1	4	1	1
7317350	3.967313	8.887548	3.03594	2	1	4	1	1
7317370	3.902668	8.73192	3.20354	2	1	4	1	1
7317392	3.806897	8.741497	3.282551	2	1	4	1	1
7317410	3.775771	8.6984	3.189174	2	1	4	1	1
7317430	3.979285	8.571504	2.980872	2	1	4	1	1
7317452	4.120547	8.482916	2.849187	2	1	4	1	1
7317470	4.01041	8.391933	2.77257	2	1	4	1	1
7317490	3.826051	8.312922	2.736656	2	1	4	1	1
7317512	3.849994	8.284191	2.815667	2	1	4	1	1
7317530	3.610566	8.365596	2.777359	2	1	4	1	1
7317550	3.272974	8.406299	2.909044	2	1	4	1	1
7317572	3.20354	8.281796	3.002421	2	1	4	1	1