

A F1 SCORE BY ACTIVITIES FOR EACH ALGORITHMS

We report here the recognition performance for the 3 datasets per algorithm and per activity. This annex gives an insight which activities could account for the difference of performance.

Table 6: F1-Score by activity for each algorithm on Aruba dataset

	ELMoAR	GPTAR	ELMoHAR	GPTHAR	ELMoHAR + time	GPTHAR + time
Bed_to.Toilet	0,987	0,996	0,991	0,992	0,992	0,996
Eating	0,925	0,935	0,937	0,948	0,932	0,936
Enter_Home	0,8	0,797	0,992	0,994	0,99	0,992
Housekeeping	0,83	0,84	0,829	0,907	0,852	0,918
Leave_Home	0,827	0,811	0,992	0,992	0,99	0,99
Meal_Preparation	0,974	0,971	0,972	0,968	0,971	0,964
Other	0,988	0,99	0,99	0,99	0,99	0,99
Relax	0,99	0,99	0,991	0,993	0,994	0,992
Respirate	0,867	0,967	0,651	0,502	0,967	0,548
Sleeping	0,988	0,99	0,982	0,984	0,991	0,981
Wash_Dishes	0,008	0,047	0,266	0,243	0,225	0,199
Work	0,984	0,993	0,979	0,987	0,985	0,975

Table 7: F1-Score by activity for each algorithm on Milan dataset

	ELMoAR	GPTAR	ELMoHAR	GPTHAR	ELMoHAR + time	GPTHAR + time
Bed_to.Toilet	0,551	0,532	0,79	0,749	0,845	0,902
Chores	0	0,011	0,088	0,122	0,15	0,161
Desk_Activity	0,976	0,996	0,952	0,982	0,958	0,976
Dining_Rm_Activity	0,416	0,252	0,516	0,481	0,491	0,522
Eve_Meds	0	0,095	0,421	0,587	0,566	0,545
Guest_Bathroom	0,978	0,981	0,979	0,98	0,98	0,984
Kitchen_Activity	0,91	0,919	0,93	0,936	0,927	0,931
Leave_Home	0,901	0,911	0,934	0,952	0,941	0,957
Master_Bathroom	0,884	0,858	0,942	0,943	0,968	0,977
Master_Bedroom_Activity	0,788	0,792	0,799	0,836	0,836	0,872
Meditate	0,86	0,874	0,863	0,933	0,866	0,972
Morning_Meds	0,58	0,546	0,642	0,669	0,698	0,712
Other	0,888	0,9	0,906	0,92	0,909	0,924
Read	0,92	0,946	0,917	0,947	0,914	0,953
Sleep	0,897	0,921	0,927	0,925	0,943	0,932
Watch_TV	0,767	0,778	0,782	0,807	0,789	0,806

Table 8: F1-Score by activity for each algorithm on Cairo dataset

	ELMoAR	GPTAR	ELMoHAR	GPTHAR	ELMoHAR + time	GPTHAR + time
Bed_to.toilet	0,382	0,359	0,374	0,483	0,545	0,311
Breakfast	0,533	0,61	0,822	0,89	0,886	0,94
Dinner	0,415	0,412	0,711	0,713	0,961	0,991
Laundry	0,911	1	0,309	0,951	0,358	0,794
Leave_home	0,938	0,958	0,891	0,97	0,895	0,973
Lunch	0,337	0,331	0,609	0,67	0,912	0,929
Night_wandering	0,759	0,795	0,805	0,829	0,823	0,837
Other	0,915	0,923	0,948	0,968	0,955	0,977
R1_sleep	0,702	0,629	0,852	0,868	0,897	0,877
R1_wake	0,871	0,899	0,903	0,906	0,895	0,909
R1_work_in_office	0,853	0,939	0,918	0,985	0,92	0,991
R2_sleep	0,706	0,715	0,824	0,857	0,856	0,863
R2_take_medicine	0,781	0,913	0,859	0,94	0,87	0,931
R2_wake	0,745	0,746	0,799	0,821	0,852	0,87