





























Domestic Ser	nsor Distributi	on	R
Sensor Type	Location	Reason	
Infra Red	Key / frequent locations	Detect presence of patient	
Microphones	Key / frequent locations	Detect ambient sounds of patient	
Light, temperature and humidity	Key / frequent locations	Monitor environment / presence	
Contact / pressure sen:	sors Bed / chairs / windows / door	s Detect presence of patient / state of doors and windows	
SenseCam	Patient	Monitor surroundings and events of patients daily life	
Energy and Water Mon	itors Plugs / Pipes / Taps	Monitor use of electricity / water in case of emergency	Address the stream of the stre
		conscience raise Assesting in year future	



















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Activitie	es of Daily	Living	X		
Activity	Activity 1	Act	ivity 2	Activi	ity 3
Sensor Sequence	+++++++++++++++++++++++++++++++++++++++			*****	+++ ++₩++ →
Sensor events segmentation	Sensor-Seg1	Sensor-Seg 2	Sensor-Seg 3	Sensor-Seg 4	Sensor-Seg 5
Time Segmentation	Time-Seg 1	Time-Seg 2	Time-Seg 3	Time-Seg 4	Time-Seg 5
Explicit / ADL Segmentation	Act-Seg 1	Act	t-Seg 2	Act-Se	eg 3
Wan, J, O'Grady, M activity recognition Vol. 18, Springer, 20	in a smart home			5	
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ecognising Activi	ities of Dai	ily Living		Kir - '
Activity	Naïve Bayes	Bayesian Network	J48	Naïve Bayes Tree
Cooking	0.962	0.953	0.519	0.972
Get up	0.990	0.981	0.981	1.000
Go to bed	0.936	0.957	0.979	0.936
Having Breakfast	0.962	0.962	0.827	1.000
Having Coffee / Tea	0.328	0.603	0.776	1.000
Having Dinner	0.947	0.930	0.825	0.947
Having Lunch	0.000	0.000	0.583	0.583
Leave Home	0.988	0.988	0.988	1.000
Making a Tea / Coffee	0.978	0.968	0.753	1.000
Return Home	1.000	1.000	0.989	0.989
Shower	0.038	0.564	0.654	1.000
Use toilet	0.994	0.965	0.894	1.000
Visit Kitchen	0.920	0.931	0.793	0.943
wake up during sleep	0.633	0.810	0.886	1.000
Washing dishes	0.976	0.969	0.724	0.969
Watching TV	1.000	1.000	0.834	0.995
Average	0.791	0.849	0.813	0.958



























