

Table S1: The training set for identification of integrated rating mechanism (decisions' root).

Subgroups of subjects	Group	encoded L_BV	encoded R_BV	encoded L_TV	encoded R_TV	Frequency
sub067, sub077	CON	1	1	1	1	2
sub061	CON	1	1	1	2	1
sub064, sub065, sub074	CON	1	1	2	2	3
sub066	CON	1	1	2	3	1
sub009	AD	1	2	1	2	1
sub053	AD	1	2	2	2	1
sub019	AD	1	2	3	3	1
sub005	AD	1	3	2	2	1
sub008	AD	1	3	2	3	1
sub047	AD	1	3	3	3	1
sub062	CON	2	1	1	1	1
sub015, sub023, sub030, sub041	AD	2	1	2	2	4
sub027, sub039, sub056	AD	2	1	3	3	3
sub080	CON	2	2	1	1	1
sub070, sub072	CON	2	2	1	2	2
sub046	AD	2	2	2	1	1
sub011, sub013, sub021, sub036, sub054	AD	2	2	2	2	5
sub010	AD	2	2	2	3	1
sub052	AD	2	2	3	2	1
sub024, sub028, sub029, sub035, sub037, sub038, sub044, sub049	AD	2	2	3	3	8
sub017	AD	2	3	2	1	1
sub045, sub051	AD	2	3	3	3	2
sub043	AD	3	1	1	2	1
sub022	AD	3	1	3	3	1
sub001	AD	3	2	1	1	1
sub014, sub016, sub032, sub033, sub058	AD	3	2	2	2	5
sub012	AD	3	2	3	2	1
sub002, sub018, sub020, sub025, sub034, sub048, sub055	AD	3	2	3	3	7
sub069	CON	3	3	1	1	1
sub050	AD	3	3	2	3	1
sub026, sub040	AD	3	3	3	3	2