Estimation By Subject

June 16, 2015

1 All models

	SPT	MxEU	MnEU	αMM	EU	DFT	CEU	EV	MaxMin	MaxMax	MinReg
All	-3.85	-3.92	-4.31	-4.32	-4.43	-4.57	-5.53	-11.50	-13.31	-14.06	-14.58
1	-2.60	-2.82	-3.13	-2.79	-3.44	-3.50	-3.22	-12.15	-12.57	-14.52	-14.48
2	-5.20	-5.14	-5.70	-5.58	-5.61	-5.93	-6.35	-11.03	-14.17	-14.45	-14.86
3	-3.90	-3.96	-28.73	-29.19	-4.39	-4.53	-8.68	-11.34	-13.14	-12.94	-14.29

Table 1: Mean predicted log likelihoods for the three treatments, and overall.

	SPT	DFT	CEU	MxEU	αMM	EU	MnEU	EV	MaxMax	MaxMin	MinReg
All	9	8	7	7	6	5	4	1	1	0	0
1	2	3	3	4	1	0	2	0	0	0	0
2	4	2	3	1	2	4	0	1	0	0	0
3	3	3	1	2	3	1	2	0	1	0	0

Table 2: Number of subject for whom a theory predicts best.

	SPT	MxEU	αMM	MnEU	EU	DFT	CEU	EV	MaxMin	MaxMax
MxEU	21^{27}	-	-	-	-	-	-	-	-	-
αMM	19^{29}	21^{16}	-	-	-	-	-	-	-	-
MnEU	13^{35}**	18^{30}*	18^{27}	-	-	-	-	-	-	-
EU	15^{33}*	16^{31}*	16^{32}	15^{29}	-	-	-	-	-	-
DFT	16^{32}**	15^{33}**	17^{31}	18^{30}	19^{29}	-	-	-	-	-
CEU	14^{34}***	15^{32}**	12^{34}***	22^{25}	23^{24}	26^{22}	-	-	-	-
EV	3^{45}***	1^{47}***	5^{43}***	3^{45}***	2^{46}***	5^{43}***	8^{40}***	-	-	-
MaxMin	1^{47}***	1^{47}***	4^{44}***	1^{47}***	0^{48}***	1^{47}***	5^{43}***	16^{32}	-	-
MaxMax	1^{47}***	1^{47}***	3^{45}***	2^{46}***	2^{46}***	3^{45}***	4^{44}***	10^{37}***	18^{29}	-
MinReg	0^{48}***	0^{48}***	2^{46}***	1^{47}***	0^{48}***	0^{48}***	3^{45}***	13^{35}***	17^{31}*	20^{28}

Table 3: Pairwise comparison of theories. Counts m^{n} mean that the row model is better for m subjects and the column model is better for n subjects. The fit is measured by predicted log likelihoods and significance levels are conventional (* < .05, ** < .01, *** < .001)

	mean$_{.1}$	mean$_{.05}$	mean	median
SPT	-3.54	-3.63	-3.85	-3.32
MxEU	-3.64	-3.75	-3.92	-3.30
αMM	-3.84	-3.96	-4.32	-3.41
MnEU	-4.15	-4.20	-4.31	-4.10
EU	-4.34	-4.36	-4.43	-4.33
CEU	-4.47	-4.67	-5.53	-3.85
DFT	-4.51	-4.54	-4.57	-4.11
EV	-11.82	-11.73	-11.50	-11.80
MaxMin	-13.56	-13.43	-13.31	-14.26
MaxMax	-14.46	-14.27	-14.06	-14.44
MinReg	-14.65	-14.62	-14.58	-14.93

Table 4: Means, trimed means and medians for all models (sorted on trimed mean$_{.1}$).

	mean$_{.1}$	mean$_{.05}$	mean	median
SPT$_{\pm}$	-3.53	-3.62	-3.83	-3.32
SPT	-3.54	-3.63	-3.85	-3.32
SPT$_u$	-3.56	-3.67	-3.92	-3.37
SCEU	-3.63	-3.73	-3.98	-3.37
SPT$_{NA}$	-3.64	-3.91	-6.21	-3.13
SPT$_2$	-3.87	-4.06	-4.91	-3.03
SPT$_{GE}$	-3.92	-4.09	-4.28	-3.12
SPT$_{TK}$	-4.19	-4.27	-4.39	-4.16
EU	-4.34	-4.36	-4.43	-4.33
PT	-5.10	-5.67	-14.42	-3.84
SCEV	-11.68	-11.61	-11.40	-11.60
SPT$_{\lambda=1}$	-11.74	-11.66	-11.45	-12.04

Table 5: Means, trimed means and medians for all models (sorted on trimed mean$_{.1}$.

	SPT$_{\pm}$	SPT	SPT$_u$	SCEU	SPT$_{NA}$	SPT$_2$	SPT$_{GE}$	SPT$_{TK}$	EU	PT	SCEV
SPT	24^{24}	-	-	-	-	-	-	-	-	-	-
SPT$_u$	24^{24}	22^{26}	-	-	-	-	-	-	-	-	-
SCEU	25^{23}	24^{24}	25^{23}	-	-	-	-	-	-	-	-
SPT$_{NA}$	23^{25}	24^{24}	25^{23}	26^{22}	-	-	-	-	-	-	-
SPT$_2$	17^{31}_{*}	16^{32}_{*}	19^{29}	18^{30}	23^{25}	-	-	-	-	-	-
SPT$_{GE}$	15^{33}_{**}	14^{34}_{**}	18^{30}	17^{31}	21^{27}	22^{26}	-	-	-	-	-
SPT$_{TK}$	18^{30}_{**}	17^{31}_{**}	18^{30}_{*}	17^{31}_{**}	20^{28}	19^{29}	20^{28}	-	-	-	-
EU	16^{32}_{*}	15^{33}_{*}	18^{30}_{*}	17^{31}_{*}	16^{32}	18^{30}	19^{29}	19^{29}	-	-	-
PT	13^{35}_{***}	13^{35}_{***}	15^{33}_{***}	14^{34}_{***}	15^{33}_{***}	14^{34}_{***}	14^{34}_{***}	17^{31}_{**}	23^{25}	-	-
SCEV	0^{48}_{***}	2^{46}_{***}	1^{47}_{***}	1^{47}_{***}	5^{43}_{***}	2^{46}_{***}	1^{47}_{***}	4^{44}_{***}	4^{44}_{***}	9^{39}_{***}	-
SPT$_{\lambda=1}$	0^{48}_{***}	2^{46}_{***}	1^{47}_{***}	1^{47}_{***}	5^{43}_{***}	2^{46}_{***}	1^{47}_{***}	3^{45}_{***}	4^{44}_{***}	9^{39}_{***}	17^{31}

Table 6: Pairwise comparison of the variations of Prospect Theory. Interpretation of the counts and significance levels are as in Table 3.

	SPT$_{\pm}$	SPT	SPT$_u$	SCEU	SPT$_{NA}$	SPT$_2$	SPT$_{GE}$	SPT$_{TK}$	PT
MxEU	20^{28}	21^{27}	24^{24}	23^{25}	18^{30}	23^{25}	22^{26}	25^{23}	29^{19}_{**}
αMM	19^{29}_{**}	19^{29}_{*}	21^{27}	22^{26}	23^{25}	25^{23}	26^{22}	28^{20}	35^{13}_{***}
MnEU	14^{34}_{***}	13^{35}_{***}	18^{30}_{**}	17^{31}_{**}	17^{31}_{**}	20^{28}	20^{28}	19^{29}	28^{20}
EU	16^{32}_{**}	15^{33}_{**}	18^{30}_{**}	17^{31}_{**}	16^{32}	18^{30}	19^{29}	19^{29}	25^{23}
DFT	16^{32}_{***}	16^{32}_{***}	18^{30}_{***}	18^{30}_{**}	19^{29}	18^{30}	18^{30}	20^{28}	23^{25}
CEU	14^{34}_{***}	14^{34}_{***}	15^{33}_{***}	15^{33}_{***}	16^{32}_{***}	20^{28}_{**}	17^{31}_{***}	20^{28}	28^{20}_{*}
EV	2^{46}_{***}	3^{45}_{***}	3^{45}_{***}	3^{45}_{***}	7^{41}_{***}	5^{43}_{***}	4^{44}_{***}	3^{45}_{***}	9^{39}_{***}
MaxMin	1^{47}_{***}	1^{47}_{***}	1^{47}_{***}	1^{47}_{***}	4^{44}_{***}	4^{44}_{***}	4^{44}_{***}	3^{45}_{***}	7^{41}_{***}
MaxMax	1^{47}_{***}	1^{47}_{***}	1^{47}_{***}	1^{47}_{***}	4^{44}_{***}	3^{45}_{***}	2^{46}_{***}	2^{46}_{***}	5^{43}_{***}
MinReg	0^{48}_{***}	0^{48}_{***}	0^{48}_{***}	0^{48}_{***}	3^{45}_{***}	2^{46}_{***}	2^{46}_{***}	1^{47}_{***}	6^{42}_{***}

Table 7: Variations of PT versus other models