

Appendix: Confidence intervals

Table A.1: Bounds of the 95%-confidence interval for $n = 40$ for the score of the second test list p_{mess2} when the score of the first test list p_{mess1} is given. The bounds were calculated with the methods 1-5, see text. The exactly calculated values (see Figure 2) were conservatively rounded to multiples of 2.5 %. To increase clarity, the values for p_{mess1} are given in steps of 5% only.

Bounds	95% confidence interval p_{mess2} in %. $n = 40$.													
	lower							upper						
Method $p_{\text{mess1}}/\%$	1	2	3	4	4/16	5	5/16	1	2	3	4	4/16	5	5/16
0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	5.0	7.5	7.5	7.5	5.0	5.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.5	15.0	15.0	17.5	17.5	17.5	17.5
10	2.5	2.5	2.5	2.5	2.5	2.5	2.5	25.0	22.5	22.5	25.0	25.0	25.0	25.0
15	5.0	5.0	5.0	5.0	5.0	5.0	5.0	32.5	30.0	30.0	32.5	30.0	32.5	30.0
20	7.5	7.5	7.5	7.5	7.5	7.5	7.5	40.0	35.0	35.0	37.5	37.5	37.5	37.5
25	10.0	12.5	12.5	10.0	10.0	10.0	10.0	45.0	40.0	40.0	42.5	42.5	45.0	42.5
30	12.5	15.0	15.0	15.0	15.0	15.0	15.0	50.0	47.5	47.5	50.0	47.5	50.0	47.5
35	17.5	20.0	20.0	17.5	20.0	17.5	20.0	55.0	52.5	52.5	55.0	52.5	55.0	52.5
40	20.0	25.0	25.0	22.5	22.5	22.5	22.5	60.0	57.5	57.5	60.0	57.5	60.0	57.5
45	25.0	27.5	30.0	27.5	27.5	25.0	27.5	65.0	62.5	62.5	65.0	62.5	65.0	62.5
50	30.0	32.5	32.5	30.0	32.5	30.0	32.5	70.0	67.5	67.5	70.0	67.5	70.0	67.5
55	35.0	37.5	37.5	35.0	37.5	35.0	37.5	75.0	72.5	70.0	72.5	72.5	75.0	72.5
60	40.0	42.5	42.5	40.0	42.5	40.0	42.5	80.0	75.0	75.0	77.5	77.5	77.5	77.5
65	45.0	47.5	47.5	45.0	47.5	45.0	47.5	82.5	80.0	80.0	82.5	80.0	82.5	80.0
70	50.0	52.5	52.5	50.0	52.5	50.0	52.5	87.5	85.0	85.0	85.0	85.0	85.0	85.0
75	55.0	60.0	60.0	57.5	57.5	55.0	57.5	90.0	87.5	87.5	90.0	90.0	90.0	90.0
80	60.0	65.0	65.0	62.5	62.5	62.5	62.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
85	67.5	70.0	70.0	67.5	70.0	67.5	70.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
90	75.0	77.5	77.5	75.0	75.0	75.0	75.0	97.5	97.5	97.5	97.5	97.5	97.5	97.5
95	82.5	85.0	85.0	82.5	82.5	82.5	82.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0
100	95.0	95.0	92.5	92.5	92.5	95.0	95.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Table A.2: Bounds of the 90%-confidence interval for $n = 20$ for the score of the second test list p_{mess2} when the score of the first test list p_{mess1} is given. The bounds were calculated with the methods 1-5, see text. The values were conservatively rounded to multiples of 5%.

90% confidence interval p_{mess2} in %. $n = 20$.														
Bounds	lower						upper							
Method $p_{\text{mess1}}/\%$	1	2	3	4	4/16	5	5/16	1	2	3	4	4/16	5	5/16
0	0	0	0	0	0	0	0	10	5	10	10	10	10	5
5	0	0	0	0	0	0	0	20	15	15	20	20	20	20
10	0	5	0	0	0	0	5	30	25	25	30	25	30	25
15	5	5	5	5	5	5	5	35	30	30	35	35	35	35
20	5	10	10	5	5	5	5	40	40	35	40	40	40	40
25	10	10	10	10	10	10	10	50	45	45	45	45	45	45
30	10	15	15	10	15	10	15	55	50	50	50	50	55	50
35	15	20	20	15	15	15	15	60	55	55	55	55	60	55
40	20	20	25	20	20	20	20	65	60	60	60	60	65	60
45	25	25	25	25	25	25	25	70	65	65	65	65	70	65
50	25	30	30	30	30	30	30	75	70	70	70	70	70	70
55	30	35	35	35	35	30	35	75	75	75	75	75	75	75
60	35	40	40	40	40	35	40	80	80	75	80	80	80	80
65	40	45	45	45	45	40	45	85	80	80	85	85	85	85
70	45	50	50	50	50	45	50	90	85	85	90	85	90	85
75	50	55	55	55	55	55	55	90	90	90	90	90	90	90
80	60	60	65	60	60	60	60	95	90	90	95	95	95	95
85	65	70	70	65	65	65	65	95	95	95	95	95	95	95
90	70	75	75	70	75	70	75	100	95	100	100	100	100	100
95	80	85	85	80	80	80	80	100	100	100	100	100	100	100
100	90	95	90	90	90	90	95	100	100	100	100	100	100	100

Table A.3: Bounds of the 90%-confidence interval for $n = 40$ for the score of the second test list p_{mess2} when the score of the first test list p_{mess1} is given. The bounds were calculated with the methods 1-5, see text. The values were conservatively rounded to multiples of 2.5 %. To increase clarity, the values for p_{mess1} are given in steps of 5% only.

	90% confidence interval p_{mess2} in %. $n = 40$.													
bounds	lower							upper						
Method $p_{\text{mess1}}/\%$	1	2	3	4	4/16	5	5/16	1	2	3	4	4/16	5	5/16
0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	2.5	5.0	5.0	5.0	5.0	2.5
5	0.0	2.5	0.0	0.0	0.0	0.0	2.5	15.0	12.5	12.5	15.0	15.0	15.0	15.0
10	2.5	2.5	2.5	2.5	2.5	2.5	2.5	22.5	20.0	20.0	22.5	20.0	22.5	20.0
15	5.0	7.5	7.5	5.0	5.0	5.0	5.0	30.0	27.5	27.5	27.5	27.5	27.5	27.5
20	7.5	10.0	10.0	10.0	10.0	10.0	10.0	35.0	32.5	32.5	35.0	32.5	35.0	32.5
25	12.5	15.0	15.0	12.5	12.5	12.5	12.5	42.5	37.5	37.5	40.0	40.0	40.0	40.0
30	15.0	17.5	17.5	17.5	17.5	17.5	17.5	47.5	42.5	42.5	45.0	45.0	45.0	45.0
35	20.0	22.5	22.5	20.0	22.5	20.0	22.5	52.5	50.0	50.0	50.0	50.0	52.5	50.0
40	25.0	27.5	27.5	25.0	25.0	25.0	25.0	57.5	55.0	55.0	57.5	55.0	57.5	55.0
45	27.5	32.5	32.5	30.0	30.0	30.0	30.0	62.5	60.0	60.0	60.0	60.0	62.5	60.0
50	32.5	35.0	35.0	35.0	35.0	35.0	35.0	67.5	65.0	65.0	65.0	65.0	65.0	65.0
55	37.5	40.0	40.0	40.0	40.0	37.5	40.0	72.5	67.5	67.5	70.0	70.0	70.0	70.0
60	42.5	45.0	45.0	42.5	45.0	42.5	45.0	75.0	72.5	72.5	75.0	75.0	75.0	75.0
65	47.5	50.0	50.0	50.0	50.0	47.5	50.0	80.0	77.5	77.5	80.0	77.5	80.0	77.5
70	52.5	57.5	57.5	55.0	55.0	55.0	55.0	85.0	82.5	82.5	82.5	82.5	82.5	82.5
75	57.5	62.5	62.5	60.0	60.0	60.0	60.0	87.5	85.0	85.0	87.5	87.5	87.5	87.5
80	65.0	67.5	67.5	65.0	67.5	65.0	67.5	92.5	90.0	90.0	90.0	90.0	90.0	90.0
85	70.0	72.5	72.5	72.5	72.5	72.5	72.5	95.0	92.5	92.5	95.0	95.0	95.0	95.0
90	77.5	80.0	80.0	77.5	80.0	77.5	80.0	97.5	97.5	97.5	97.5	97.5	97.5	97.5
95	85.0	87.5	87.5	85.0	85.0	85.0	85.0	100.0	97.5	100.0	100.0	100.0	100.0	100.0
100	95.0	97.5	95.0	95.0	95.0	95.0	97.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0