

信度檢定及改善

1. 工作自主性 構面效度很差

查看 item-to-total correlation 有下列的發現

第 4 題係數是負數

察看問卷的文句 發現是反面問項 所以需要 recoding

我們也可以從 6 題一起去跑 scale reliability 中

item-to-total correlation 的係數看出來 $-.4876$

我沒有去 recoding 而是直接 drop

再跑一次 scale reliability

又發現 第 2, 3 題 item-to-total correlation 的係數 是負數

再 drop 第 2, 3 題 再跑一次 scale reliability

現在的 Reliability Alpha = $.8587$

Reliability

***** Method 2 (covariance matrix) will be used for this analysis *****

RELIABILITY ANALYSIS - SCALE (ALPHA)

		Mean	Std Dev	Cases
1.	AUT1	4.0000	1.0954	16.0
2.	AUT2	2.1875	1.1673	16.0
3.	AUT3	3.6875	1.1955	16.0
4.	AUT4	3.5000	1.4606	16.0
5.	AUT5	3.6875	1.3022	16.0
6.	AUT6	3.6875	1.1955	16.0

Covariance Matrix

	AUT1	AUT2	AUT3	AUT4	AUT5
AUT1	1.2000				
AUT2	-.1333	1.3625			
AUT3	-.2000	.1958	1.4292		
AUT4	-.6000	.3000	.6333	2.1333	
AUT5	.8667	-.2708	-.3042	-1.4333	1.6958
AUT6	.6667	.1292	-.5042	-1.2333	1.3625
	AUT6				
AUT6	1.4292				

Correlation Matrix

	AUT1	AUT2	AUT3	AUT4	AUT5
AUT1	1.0000				
AUT2	-.1043	1.0000			
AUT3	-.1527	.1403	1.0000		
AUT4	-.3750	.1760	.3627	1.0000	
AUT5	.6075	-.1782	-.1954	-.7536	1.0000
AUT6	.5091	.0926	-.3528	-.7063	.8752
	AUT6				

AUT6 1.0000

RELIABILITY ANALYSIS - SCALE (ALPHA)

N of Cases = 16.0

Statistics for Scale	Mean	Variance	Std Dev	N of Variables		
	20.7500	8.2000	2.8636	6		
Item Means	Mean	Minimum	Maximum	Range	Max/Min	Variance
	3.4583	2.1875	4.0000	1.8125	1.8286	.4135
Item Variances	Mean	Minimum	Maximum	Range	Max/Min	Variance
	1.5417	1.2000	2.1333	.9333	1.7778	.1096
Inter-item Covariances	Mean	Minimum	Maximum	Range	Max/Min	Variance
	-.0350	-1.4333	1.3625	2.7958	-.9506	.5512
Inter-item Correlations	Mean	Minimum	Maximum	Range	Max/Min	Variance
	-.0037	-.7536	.8752	1.6288	-1.1614	.2083

Item-total Statistics

	Scale Mean if Item Deleted	Scale Variance if Item Deleted	Corrected Item-Total Correlation	Squared Multiple Correlation	Alpha if Item Deleted
AUT1	16.7500	5.8000	.2274	.3982	-.4849
AUT2	18.5625	6.3958	.0748	.4087	-.2915
AUT3	17.0625	7.1292	-.0561	.3667	-.1213
AUT4	17.2500	10.7333	-.4876	.6298	.4212
AUT5	17.0625	6.0625	.0689	.8991	-.3076
AUT6	17.0625	5.9292	.1446	.8773	-.3988

Reliability Coefficients 6 items

Alpha = -.1537 Standardized item alpha = -.0224

Reliability

***** Method 2 (covariance matrix) will be used for this analysis *****

RELIABILITY ANALYSIS - SCALE (ALPHA)

		Mean	Std Dev	Cases
1.	AUT1	4.0000	1.0954	16.0
2.	AUT2	2.1875	1.1673	16.0
3.	AUT3	3.6875	1.1955	16.0
4.	AUT5	3.6875	1.3022	16.0
5.	AUT6	3.6875	1.1955	16.0

Covariance Matrix

	AUT1	AUT2	AUT3	AUT5	AUT6
AUT1	1.2000				
AUT2	-.1333	1.3625			
AUT3	-.2000	.1958	1.4292		
AUT5	.8667	-.2708	-.3042	1.6958	
AUT6	.6667	.1292	-.5042	1.3625	1.4292

Correlation Matrix

	AUT1	AUT2	AUT3	AUT5	AUT6
AUT1	1.0000				
AUT2	-.1043	1.0000			
AUT3	-.1527	.1403	1.0000		
AUT5	.6075	-.1782	-.1954	1.0000	
AUT6	.5091	.0926	-.3528	.8752	1.0000

RELIABILITY ANALYSIS - SCALE (ALPHA)

N of Cases = 16.0

Statistics for Scale	Mean	Variance	Std Dev	N of Variables
	17.2500	10.7333	3.2762	5

Item Means	Mean	Minimum	Maximum	Range	Max/Min	Variance
	3.4500	2.1875	4.0000	1.8125	1.8286	.5164

Item Variances	Mean	Minimum	Maximum	Range	Max/Min	Variance
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	1.4233	1.2000	1.6958	.4958	1.4132	.0320
Inter-item Covariances	Mean .1808	Minimum -.5042	Maximum 1.3625	Range 1.8667	Max/Min -2.7025	Variance .3429
Inter-item Correlations	Mean .1241	Minimum -.3528	Maximum .8752	Range 1.2280	Max/Min -2.4809	Variance .1576

Item-total Statistics

	Scale Mean if Item Deleted	Scale Variance if Item Deleted	Corrected Item- Total Correlation	Squared Multiple Correlation	Alpha if Item Deleted
AUT1	13.2500	7.1333	.4102	.3782	.2274
AUT2	15.0625	9.5292	-.0220	.4077	.5282
AUT3	13.5625	10.9292	-.2056	.3123	.6395
AUT5	13.5625	5.7292	.5307	.8812	.0718
AUT6	13.5625	5.9958	.5651	.8772	.0686

Reliability Coefficients 5 items

Alpha = .4212 Standardized item alpha = .4147

Reliability

***** Method 2 (covariance matrix) will be used for this analysis *****

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RELIABILITY ANALYSIS - SCALE (ALPHA)

		Mean	Std Dev	Cases
1.	AUT1	4.0000	1.0954	16.0
2.	AUT5	3.6875	1.3022	16.0
3.	AUT6	3.6875	1.1955	16.0

Covariance Matrix

	AUT1	AUT5	AUT6
AUT1	1.2000		
AUT5	.8667	1.6958	
AUT6	.6667	1.3625	1.4292

Correlation Matrix

	AUT1	AUT5	AUT6
AUT1	1.0000		
AUT5	.6075	1.0000	
AUT6	.5091	.8752	1.0000

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RELIABILITY ANALYSIS - SCALE (ALPHA)

N of Cases = 16.0

Statistics for Scale	Mean	Variance	Std Dev	N of Variables
	11.3750	10.1167	3.1807	3

Item Means	Mean	Minimum	Maximum	Range	Max/Min	Variance
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	3.7917	3.6875	4.0000	.3125	1.0847	.0326
Item Variances	Mean	Minimum	Maximum	Range	Max/Min	Variance
	1.4417	1.2000	1.6958	.4958	1.4132	.0616
Inter-item Covariances	Mean	Minimum	Maximum	Range	Max/Min	Variance
	.9653	.6667	1.3625	.6958	2.0438	.1027
Inter-item Correlations	Mean	Minimum	Maximum	Range	Max/Min	Variance
	.6639	.5091	.8752	.3661	1.7192	.0287

Item-total Statistics

	Scale Mean if Item Deleted	Scale Variance if Item Deleted	Corrected Item- Total Correlation	Squared Multiple Correlation	Alpha if Item Deleted
AUT1	7.3750	5.8500	.5787	.3713	.9316
AUT5	7.6875	3.9625	.8599	.8014	.6730
AUT6	7.6875	4.6292	.7889	.7668	.7489

Reliability Coefficients 3 items

Alpha = .8587 Standardized item alpha = .8556