

ภาคผนวก ฅ

ผลการวิเคราะห์รูปแบบความสัมพันธ์โครงสร้างเชิงเส้นของปัจจัยที่ส่งผล
ต่อคุณภาพชีวิตการทำงานของคุณครูในโรงเรียนพระปริยัติธรรม
แผนกสามัญศึกษา ในภาคตะวันออกเฉียงเหนือ โดยใช้โปรแกรม LISREL
for Version 8.72

รูปแบบความสัมพันธ์โครงสร้างเชิงของปัจจัยที่ส่งผลต่อคุณภาพชีวิตการทำงานของคน

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L I S R E L 8.72

BY

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The following lines were read from file E:\ostngam.LPJ:

TI ostngam
!DA NI=24 NO=486 MA=CM
SY='E:\ostngam.ds' NG=1
SE
12 13 14 15 16 17 18 19 20 21 22 23 24 1 2 3 4 5
6 7 8 9 10 11 /
MO NX=11 NY=13 NK=2 NE=3 BE=FU GA=FI PS=SY TE=SY TD=SY
LE
jsa oco qwl
LK
ocl ocu
FR LY(1,1) LY(2,1) LY(3,1) LY(4,1) LY(5,2) LY(6,2) LY(7,2) LY(8,3) LY(9,3)
FR LY(10,3) LY(11,3) LY(12,3) LY(13,3) LX(1,1) LX(2,1) LX(3,1) LX(4,1) LX(5,1)
FR LX(6,2) LX(7,2) LX(8,2) LX(9,2) LX(10,2) LX(11,2) BE(2,1) BE(3,1) BE(3,2)
FR GA(1,1) GA(1,2) GA(2,1) GA(2,2) GA(3,1) GA(3,2)
FR TE 1 1 TE 2 2 TE 3 3 TE 4 4 TE 5 5 TE 6 6 TE 7 7 TE 8 8 TE 9 9 TE 10 10
FR TE 11 11 TE 12 12 TE 13 13 TE 11 8 TD 1 1 TD 2 2 TD 3 3 TD 4 4 TD 5 5 TD 6 6
FR TD 7 7 TD 8 8 TD 9 9 TD 10 10 TD 11 11 TD 11 4 TE 12 8 TE 6 2 TE 9 8 TE 10 3
FR TE 12 11 TE 11 9 TD 6 3 TH 11 2 TH 4 2 TE 7 5 TH 4 8 TE 13 7 TE 6 1 TD 2 1
FR TH 4 11 TH 4 9 TH 4 10 TH 11 6 TH 9 9 TD 11 5 TD 10 2 TH 3 9 TD 9 4 TD 11 9
FR TH 11 10 TE 13 10 TH 11 11 TH 11 8 TE 13 3 TH 7 1 TE 8 3 TE 12 3 TE 11 2
FR TE 11 6 TE 4 3 TD 6 4 TD 9 6 TE 7 3 TE 11 4 TD 6 5 TD 9 7 TD 10 6 TH 8 10
FR TE 7 4 TE 9 2 TH 10 9 TH 10 8 TE 12 2 TE 11 10 TE 11 3 TE 9 6 TE 8 6
FR TE 12 1 TH 4 6 TE 8 2 TE 12 6 TE 13 12 TD 6 1 TD 5 4 TH 5 10 TE 3 2 TE 5 4
FR TE 5 3 TE 10 5 TD 8 2 TE 9 4 TE 9 1 TD 10 8 TE 13 4 TE 5 1 TE 2 1 TE 6 4
FR TE 10 4 TE 10 6 TH 7 10 TE 10 7 TE 10 1 TE 8 6 TD 7 4 TD 9 7 TD 8 6
PD
OU AM PC RS EF FS SS SC

TI ostngam

Number of Input Variables 24
Number of Y - Variables 13
Number of X - Variables 11
Number of ETA - Variables 3
Number of KSI - Variables 2
Number of Observations 486

TI ostngam

Number of Iterations =145

LISREL Estimates (Maximum Likelihood)

LAMBDA-Y			
	jsa	oco	qwl
	-----	-----	-----
y1	0.53	- -	- -
y2	0.60 (0.02) 24.42	- -	- -
y3	0.57 (0.03) 19.25	- -	- -
y4	0.60 (0.02) 25.68	- -	- -
y5	- -	0.59	- -
y6	- -	0.49 (0.02) 21.96	- -
y7	- -	0.61 (0.03) 23.77	- -
y8	- -	- -	0.58
y9	- -	- -	0.55 (0.03) 16.34
y10	- -	- -	0.48 (0.04) 12.90
y11	- -	- -	0.62 (0.03) 18.21
y12	- -	- -	0.55 (0.03) 17.17
y13	- -	- -	0.57 (0.04) 14.64

LAMBDA-X

LAMBDA-X	
	ocu

x1	0.55 (0.03) 21.84
x2	0.58 (0.02) 23.66
x3	0.49 (0.02) 21.80
x4	0.67 (0.03)

		20.52	
x5	0.58 (0.02) 23.36	--	
x6	--	0.55 (0.02) 24.88	
x7	--	0.58 (0.02) 25.14	
x8	--	0.57 (0.02) 23.84	
x9	--	0.59 (0.02) 24.52	
x10	--	0.66 (0.03) 24.52	
x11	--	0.62 (0.03) 22.03	

BETA

	jsa	oco	qwl
jsa	--	--	--
oco	0.82 (0.17) 4.85	--	--
qwl	-0.41 (0.22) -1.88	-0.05 (0.09) -0.55	--

GAMMA

	ocl	ocu
jsa	0.38 (0.15) 2.48	0.58 (0.15) 3.79
oco	0.21 (0.19) 1.09	-0.16 (0.20) -0.80
qwl	1.91 (0.36) 5.28	-0.54 (0.31) -1.72

Covariance Matrix of ETA and KSI

	jsa	oco	qwl	ocl	ocu
jsa	1.00				
oco	0.87	1.00			
qwl	0.83	0.73	1.00		
ocl	0.94	0.83	0.97	1.00	

ocu 0.94 0.82 0.88 0.97 1.00

PHI

	ocu	ocu
	-----	-----
ocu	1.00	
ocu	0.97 (0.01) 130.66	1.00

PSI

Note: This matrix is diagonal.

	jsa	oco	qwl
	-----	-----	-----
	0.10 (0.02) 5.73	0.24 (0.04) 6.75	0.01 (0.04) 0.20

Squared Multiple Correlations for Structural Equations

	jsa	oco	qwl
	-----	-----	-----
	0.90	0.76	0.99

Squared Multiple Correlations for Reduced Form

	jsa	oco	qwl
	-----	-----	-----
	0.90	0.69	0.97

Reduced Form

	ocl	ocu
	-----	-----
jsa	0.38 (0.15) 2.48	0.58 (0.15) 3.79
oco	0.52 (0.20) 2.62	0.32 (0.20) 1.61
qwl	1.73 (0.32) 5.41	-0.79 (0.30) -2.61

Squared Multiple Correlations for Y - Variables

	y1	y2	y3	y4	y5	y6
	-----	-----	-----	-----	-----	-----
	0.73	0.70	0.55	0.78	0.85	0.66

Squared Multiple Correlations for Y - Variables

	y7	y8	y9	y10	y11	y12
	-----	-----	-----	-----	-----	-----
	0.74	0.37	0.58	0.52	0.48	0.60

Squared Multiple Correlations for Y - Variables

	y13

	0.74

Squared Multiple Correlations for X - Variables

x1	x2	x3	x4	x5	x6
0.67	0.74	0.66	0.61	0.73	0.79

Squared Multiple Correlations for X - Variables

x7	x8	x9	x10	x11
0.80	0.75	0.78	0.77	0.67

Goodness of Fit Statistics

Degrees of Freedom = 161
 Minimum Fit Function Chi-Square = 190.67 (P = 0.055)
 Normal Theory Weighted Least Squares Chi-Square = 188.37 (P = 0.069)
 Estimated Non-centrality Parameter (NCP) = 27.37
 90 Percent Confidence Interval for NCP = (0.0 ; 65.71)

Minimum Fit Function Value = 0.39
 Population Discrepancy Function Value (F0) = 0.056
 90 Percent Confidence Interval for F0 = (0.0 ; 0.14)
 Root Mean Square Error of Approximation (RMSEA) = 0.019
 90 Percent Confidence Interval for RMSEA = (0.0 ; 0.029)
 P-Value for Test of Close Fit (RMSEA < 0.05) = 1.00

Expected Cross-Validation Index (ECVI) = 0.96
 90 Percent Confidence Interval for ECVI = (0.91 ; 1.04)
 ECVI for Saturated Model = 1.24
 ECVI for Independence Model = 108.34

Chi-Square for Independence Model with 276 Degrees of Freedom = 52498.81
 Independence AIC = 52546.81
 Model AIC = 466.37
 Saturated AIC = 600.00
 Independence CAIC = 52671.28
 Model CAIC = 1187.25
 Saturated CAIC = 2155.86

Normed Fit Index (NFI) = 1.00
 Non-Normed Fit Index (NNFI) = 1.00
 Parsimony Normed Fit Index (PNFI) = 0.58
 Comparative Fit Index (CFI) = 1.00
 Incremental Fit Index (IFI) = 1.00
 Relative Fit Index (RFI) = 0.99

Critical N (CN) = 524.15

Root Mean Square Residual (RMR) = 0.010
 Standardized RMR = 0.018
 Goodness of Fit Index (GFI) = 0.97
 Adjusted Goodness of Fit Index (AGFI) = 0.94
 Parsimony Goodness of Fit Index (PGFI) = 0.52

jsa	0.03	-0.01	-0.07	-0.04	0.01	0.00
oco	0.47	0.01	0.00	-0.11	0.02	0.02
qwl	0.05	-0.05	0.18	0.31	-0.02	0.24

ETA

	y13	x1	x2	x3	x4	x5
jsa	0.00	0.04	0.09	0.04	0.04	0.06
oco	0.06	0.01	0.03	0.02	0.00	0.01
qwl	0.42	0.09	0.12	0.15	0.10	0.18

ETA

	x6	x7	x8	x9	x10	x11
jsa	0.11	0.06	0.05	0.14	0.11	0.01
oco	0.04	0.02	0.00	0.04	0.03	0.00
qwl	-0.05	0.07	0.07	0.03	0.00	0.09

KSI

	y1	y2	y3	y4	y5	y6
ocl	0.03	0.03	-0.02	0.04	0.01	0.05
ocu	0.03	0.01	0.00	0.06	0.00	0.03

KSI

	y7	y8	y9	y10	y11	y12
ocl	0.05	-0.04	0.06	0.17	-0.01	0.13
ocu	0.01	-0.03	-0.05	0.09	-0.01	0.03

KSI

	y13	x1	x2	x3	x4	x5
ocl	0.22	0.06	0.11	0.09	0.08	0.13
ocu	0.04	0.01	0.07	-0.01	0.06	0.05

KSI

	x6	x7	x8	x9	x10	x11
ocl	0.07	0.11	0.09	0.14	0.08	0.09
ocu	0.26	0.23	0.14	0.31	0.19	0.15

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Standardized Solution

LAMBDA-Y

	jsa	oco	qwl
y1	0.53	-	-
y2	0.60	-	-
y3	0.57	-	-
y4	0.60	-	-
y5	-	0.59	-
y6	-	0.49	-
y7	-	0.61	-
y8	-	-	0.58
y9	-	-	0.55
y10	-	-	0.48
y11	-	-	0.62
y12	-	-	0.55
y13	-	-	0.57

LAMBDA-X

	ocl	ocu
x1	0.55	- -
x2	0.58	- -
x3	0.49	- -
x4	0.67	- -
x5	0.58	- -
x6	- -	0.55
x7	- -	0.58
x8	- -	0.57
x9	- -	0.59
x10	- -	0.66
x11	- -	0.62

BETA

	jsa	oco	qwl
jsa	- -	- -	- -
oco	0.82	- -	- -
qwl	-0.41	-0.05	- -

GAMMA

	ocl	ocu
jsa	0.38	0.58
oco	0.21	-0.16
qwl	1.91	-0.54

Correlation Matrix of ETA and KSI

	jsa	oco	qwl	ocl	ocu
jsa	1.00				
oco	0.87	1.00			
qwl	0.83	0.73	1.00		
ocl	0.94	0.83	0.97	1.00	
ocu	0.94	0.82	0.88	0.97	1.00

PSI

Note: This matrix is diagonal.

	jsa	oco	qwl
	0.10	0.24	0.01

Regression Matrix ETA on KSI (Standardized)

	ocl	ocu
jsa	0.38	0.58
oco	0.52	0.32
qwl	1.73	-0.79

TI ostngam

Completely Standardized Solution

LAMBDA-Y

	jsa	oco	qwl
y1	0.85	- -	- -
y2	0.84	- -	- -
y3	0.74	- -	- -
y4	0.88	- -	- -
y5	- -	0.92	- -
y6	- -	0.81	- -
y7	- -	0.86	- -

y8	--	--	0.61
y9	--	--	0.76
y10	--	--	0.72
y11	--	--	0.69
y12	--	--	0.78
y13	--	--	0.86

LAMBDA-X

	ocl	ocu
	-----	-----
x1	0.82	--
x2	0.86	--
x3	0.82	--
x4	0.78	--
x5	0.85	--
x6	--	0.89
x7	--	0.89
x8	--	0.87
x9	--	0.88
x10	--	0.88
x11	--	0.82

BETA

	jsa	oco	qwl
	-----	-----	-----
jsa	--	--	--
oco	0.82	--	--
qwl	-0.41	-0.05	--

GAMMA

	ocl	ocu
	-----	-----
jsa	0.38	0.58
oco	0.21	-0.16
qwl	1.91	-0.54

Correlation Matrix of ETA and KSI

	jsa	oco	qwl	ocl	ocu
	-----	-----	-----	-----	-----
jsa	1.00				
oco	0.87	1.00			
qwl	0.83	0.73	1.00		
ocl	0.94	0.83	0.97	1.00	
ocu	0.94	0.82	0.88	0.97	1.00

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Total and Indirect Effects

Total Effects of KSI on ETA

	ocl	ocu
	-----	-----
jsa	0.38 (0.15) 2.48	0.58 (0.15) 3.79
oco	0.52 (0.20) 2.62	0.32 (0.20) 1.61
qwl	1.73 (0.32) 5.41	-0.79 (0.30) -2.61

Indirect Effects of KSI on ETA

	ocl	ocu
	-----	-----
jsa	- -	- -
oco	0.31 (0.14) 2.27	0.47 (0.16) 2.92
qwl	-0.18 (0.12) -1.48	-0.25 (0.10) -2.62

Total Effects of ETA on ETA

	jsa	oco	qwl
	-----	-----	-----
jsa	- -	- -	- -
oco	0.82 (0.17) 4.85	- -	- -
qwl	-0.45 (0.19) -2.36	-0.05 (0.09) -0.55	- -

Largest Eigenvalue of $B*B'$ (Stability Index) is 0.839

Indirect Effects of ETA on ETA

	jsa	oco	qwl
	-----	-----	-----
jsa	- -	- -	- -
oco	- -	- -	- -
qwl	-0.04 (0.07) -0.57	- -	- -

Total Effects of ETA on Y

	jsa	oco	qwl
	-----	-----	-----
y1	0.53	- -	- -
y2	0.60 (0.02) 24.42	- -	- -
y3	0.57 (0.03) 19.25	- -	- -
y4	0.60 (0.02) 25.68	- -	- -
y5	0.48 (0.10) 4.85	0.59	- -
y6	0.41 (0.08) 4.80	0.49 (0.02) 21.96	- -

y7	0.50 (0.10) 4.82	0.61 (0.03) 23.77	- -
y8	-0.26 (0.11) -2.36	-0.03 (0.05) -0.55	0.58
y9	-0.25 (0.10) -2.37	-0.03 (0.05) -0.55	0.55 (0.03) 16.34
y10	-0.21 (0.09) -2.36	-0.02 (0.04) -0.55	0.48 (0.04) 12.90
y11	-0.28 (0.12) -2.37	-0.03 (0.05) -0.55	0.62 (0.03) 18.21
y12	-0.25 (0.10) -2.37	-0.03 (0.05) -0.55	0.55 (0.03) 17.17
y13	-0.26 (0.11) -2.38	-0.03 (0.05) -0.55	0.57 (0.04) 14.64

Indirect Effects of ETA on Y

	jsa	oco	qwl
	-----	-----	-----
y1	- -	- -	- -
y2	- -	- -	- -
y3	- -	- -	- -
y4	- -	- -	- -
y5	0.48 (0.10) 4.85	- -	- -
y6	0.41 (0.08) 4.80	- -	- -
y7	0.50 (0.10) 4.82	- -	- -
y8	-0.26 (0.11) -2.36	-0.03 (0.05) -0.55	- -
y9	-0.25 (0.10) -2.37	-0.03 (0.05) -0.55	- -
y10	-0.21 (0.09) -2.36	-0.02 (0.04) -0.55	- -
y11	-0.28 (0.12) -2.37	-0.03 (0.05) -0.55	- -
y12	-0.25 (0.10)	-0.03 (0.05)	- -

	-2.37	-0.55	
y13	-0.26 (0.11)	-0.03 (0.05)	- -
	-2.38	-0.55	

Total Effects of KSI on Y

	ocl	ocu
	-----	-----
y1	0.20 (0.08) 2.48	0.31 (0.08) 3.79
y2	0.23 (0.09) 2.47	0.35 (0.09) 3.79
y3	0.22 (0.09) 2.47	0.33 (0.09) 3.77
y4	0.23 (0.09) 2.48	0.35 (0.09) 3.80
y5	0.31 (0.12) 2.62	0.19 (0.12) 1.61
y6	0.26 (0.10) 2.61	0.16 (0.10) 1.61
y7	0.32 (0.12) 2.62	0.19 (0.12) 1.61
y8	1.00 (0.18) 5.41	-0.45 (0.17) -2.61
y9	0.95 (0.17) 5.58	-0.43 (0.16) -2.63
y10	0.83 (0.15) 5.54	-0.38 (0.14) -2.62
y11	1.07 (0.19) 5.52	-0.49 (0.19) -2.62
y12	0.96 (0.17) 5.61	-0.44 (0.17) -2.63
y13	0.99 (0.17) 5.67	-0.45 (0.17) -2.64

TI ostngam

Standardized Total and Indirect Effects

Standardized Total Effects of KSI on ETA

ocl ocu

	-----	-----
jsa	0.38	0.58
oco	0.52	0.32
qwl	1.73	-0.79

Standardized Indirect Effects of KSI on ETA

	oc1	ocu
	-----	-----
jsa	- -	- -
oco	0.31	0.47
qwl	-0.18	-0.25

Standardized Total Effects of ETA on ETA

	jsa	oco	qwl
	-----	-----	-----
jsa	- -	- -	- -
oco	0.82	- -	- -
qwl	-0.45	-0.05	- -

Standardized Indirect Effects of ETA on ETA

	jsa	oco	qwl
	-----	-----	-----
jsa	- -	- -	- -
oco	- -	- -	- -
qwl	-0.04	- -	- -

Standardized Total Effects of ETA on Y

	jsa	oco	qwl
	-----	-----	-----
y1	0.53	- -	- -
y2	0.60	- -	- -
y3	0.57	- -	- -
y4	0.60	- -	- -
y5	0.48	0.59	- -
y6	0.41	0.49	- -
y7	0.50	0.61	- -
y8	-0.26	-0.03	0.58
y9	-0.25	-0.03	0.55
y10	-0.21	-0.02	0.48
y11	-0.28	-0.03	0.62
y12	-0.25	-0.03	0.55
y13	-0.26	-0.03	0.57

Completely Standardized Total Effects of ETA on Y

	jsa	oco	qwl
	-----	-----	-----
y1	0.85	- -	- -
y2	0.84	- -	- -
y3	0.74	- -	- -
y4	0.88	- -	- -
y5	0.76	0.92	- -
y6	0.66	0.81	- -
y7	0.70	0.86	- -
y8	-0.27	-0.03	0.61
y9	-0.34	-0.04	0.76
y10	-0.32	-0.03	0.72
y11	-0.31	-0.03	0.69
y12	-0.35	-0.04	0.78
y13	-0.39	-0.04	0.86

Standardized Indirect Effects of ETA on Y

	jsa	oco	qwl
	-----	-----	-----
y1	- -	- -	- -
y2	- -	- -	- -

y3	- -	- -	- -
y4	- -	- -	- -
y5	0.48	- -	- -
y6	0.41	- -	- -
y7	0.50	- -	- -
y8	-0.26	-0.03	- -
y9	-0.25	-0.03	- -
y10	-0.21	-0.02	- -
y11	-0.28	-0.03	- -
y12	-0.25	-0.03	- -
y13	-0.26	-0.03	- -

Completely Standardized Indirect Effects of ETA on Y

	jsa	oco	qwl
	-----	-----	-----
y1	- -	- -	- -
y2	- -	- -	- -
y3	- -	- -	- -
y4	- -	- -	- -
y5	0.76	- -	- -
y6	0.66	- -	- -
y7	0.70	- -	- -
y8	-0.27	-0.03	- -
y9	-0.34	-0.04	- -
y10	-0.32	-0.03	- -
y11	-0.31	-0.03	- -
y12	-0.35	-0.04	- -
y13	-0.39	-0.04	- -

Standardized Total Effects of KSI on Y

	ocl	ocu
	-----	-----
y1	0.20	0.31
y2	0.23	0.35
y3	0.22	0.33
y4	0.23	0.35
y5	0.31	0.19
y6	0.26	0.16
y7	0.32	0.19
y8	1.00	-0.45
y9	0.95	-0.43
y10	0.83	-0.38
y11	1.07	-0.49
y12	0.96	-0.44
y13	0.99	-0.45

Completely Standardized Total Effects of KSI on Y

	ocl	ocu
	-----	-----
y1	0.32	0.49
y2	0.32	0.48
y3	0.28	0.43
y4	0.33	0.51
y5	0.48	0.29
y6	0.42	0.26
y7	0.45	0.27
y8	1.05	-0.48
y9	1.32	-0.60
y10	1.24	-0.57
y11	1.19	-0.55
y12	1.34	-0.61
y13	1.49	-0.68

Time used: 0.484 Seconds