

ภาคผนวก จ

ผลการวิเคราะห์โมเดลความสัมพันธ์เชิงสาเหตุปัจจัยที่ส่งผล
ต่อการบริหารจัดการศึกษา โดยใช้โปรแกรมลิสรเอล

มหาวิทยาลัยราชภัฏวไลยอลงกรณ์

DATE: 4/ 3/2019

TIME: 23:33

L I S R E L 8.52

BY

Karl G. J"reskog & Dag S"rbom

This program is published exclusively by
Scientific Software International, Inc.

7383 N. Lincoln Avenue, Suite 100
Lincolnwood, IL 60712, U.S.A.

Phone: (800)247-6113, (847)675-0720, Fax: (847)675-2140

Copyright by Scientific Software International, Inc., 1981-2002

Use of this program is subject to the terms specified in the
Universal Copyright Convention.

Website: www.ssicentral.com

The following lines were read from file C:\Users\Desktop\Aor\path.LPJ:

TI path

IDA NI=23 NO=440 NG=1 MA=CM

SY='C:\Users\Desktop\Aor\path.DSF' NG=1

SE

2 3 4 5 6 15 16 17 18 19 20 21 22 23 7 8 9 10 11 12 13 14 /

MO NX=8 NY=14 NK=2 NE=3 LY=FU,FI LX=FU,FI BE=FU,FI GA=FU,FI PH=SY,FR PS=DI,FR TE=SY TD=SY TH=SY

LE

LEARN COMMUN EFFECT

LK

LEADER EVIRON

FI PH(1,1) PH(2,1) PH(2,2) PS(1,1) PS(2,2) PS(3,3)

FR LY(1,3) LY(2,3) LY(3,3) LY(4,3) LY(5,3) LY(6,1) LY(7,1) LY(8,1) LY(9,1)

FR LY(10,1) LY(11,2) LY(12,2) LY(13,2) LY(14,2) LX(1,1) LX(2,1) LX(3,1) LX(4,1)

FR LX(5,1) LX(6,2) LX(7,2) LX(8,2) BE(1,2) BE(3,1) BE(3,2) GA(1,1) GA(1,2)

FR GA(2,1) GA(2,2) GA(3,1) GA(3,2) PH(1,1) PH(2,2) PS(1,1) PS(2,2) PS(3,3)

FR PH 2,1 TE 14,13 TD 5,4 TE 5,4 TH 8,2 TE 12,11 TH 1,4 TH 1,5 TD 7,6 TE 8,7 TE 7,6

FR TH 4,14 TH 8,11 te 2,1 td 8,4 te 3,2 te 3,1 th 5,11 te 8,6 te 14,12 TE 13,12 TH 2,4 TE 9,8

FR TE 9,7 TH 8,10 TH 7,7 TE 11,10 TH 4,4 TH 8,8 TE 14,9 TH 4,9 TE 13,9 TE 9,5 TE 14,4 TH 2,14

FR TH 8,14 TH 1,14 TE 11,1 TH 8,11 TH 8,13 TH 6,11 TH 1,8 TE 13,2 TE 14,2 TE 12,10 TH 8,1 Te 7,3

FR TE 10,4 TH 5,11 TH 5,10 TE 13,10 TD 4,2 TH 5,7 TH 5,14 TH 7,9 TH 7,8 TE 14,10 TD 7,1 TH 2,12

FR TH 6,2 TH 2,9 TH 5,6 TD 4,3 TH 5,4 TH 3,4 TD 3,2 TH 5,5 TH 4,8 TE 4,2 TH 3,14

PD

OU ME=ML AM PC RS EF FS SS SC IT=250 AD=OFF

TI path

Number of Input Variables 23

Number of Y - Variables 14

Number of X - Variables 8

Number of ETA - Variables 3

Number of KSI - Variables 2

Number of Observations 440

TI path

Covariance Matrix

	ADAP	ACOM	ATIT	MANA	SATI	EDUC
ADAP	0.28					
ACOM	0.18	0.24				
ATIT	0.17	0.18	0.23			
MANA	0.10	0.12	0.12	0.20		
SATI	0.14	0.15	0.15	0.14	0.22	
EDUC	0.15	0.16	0.15	0.12	0.16	0.23
STAN	0.16	0.17	0.17	0.12	0.16	0.21
COLE	0.15	0.16	0.15	0.11	0.15	0.19
DEVE	0.14	0.15	0.14	0.12	0.15	0.18
LEAR	0.14	0.15	0.14	0.11	0.15	0.17
TEAM	0.14	0.14	0.14	0.12	0.14	0.17
VSIO	0.13	0.14	0.14	0.12	0.14	0.16
LONG	0.12	0.12	0.12	0.12	0.14	0.14
FRIE	0.12	0.12	0.13	0.13	0.14	0.15

VISI	0.09	0.10	0.10	0.13	0.13	0.12
MOTI	0.12	0.12	0.13	0.13	0.14	0.14
KNOW	0.12	0.12	0.13	0.12	0.14	0.15
ETHI	0.11	0.10	0.11	0.12	0.13	0.13
RELA	0.11	0.11	0.12	0.12	0.14	0.15
PHYS	0.12	0.13	0.12	0.09	0.12	0.15
PSYC	0.14	0.14	0.14	0.11	0.15	0.17
SOCI	0.11	0.10	0.12	0.10	0.13	0.15

Covariance Matrix

	STAN	COLE	DEVE	LEAR	TEAM	VSIO
STAN	0.29					
COLE	0.22	0.23				
DEVE	0.20	0.19	0.22			
LEAR	0.19	0.18	0.18	0.21		
TEAM	0.19	0.18	0.17	0.18	0.26	
VSIO	0.18	0.17	0.17	0.17	0.22	0.25
LONG	0.16	0.16	0.16	0.16	0.17	0.18
FRIE	0.16	0.16	0.17	0.16	0.18	0.20
VISI	0.12	0.12	0.12	0.11	0.12	0.13
MOTI	0.14	0.14	0.14	0.14	0.15	0.15
KNOW	0.14	0.14	0.14	0.14	0.15	0.15
ETHI	0.13	0.12	0.14	0.13	0.14	0.14
RELA	0.15	0.14	0.14	0.14	0.16	0.15
PHYS	0.16	0.15	0.14	0.14	0.15	0.14
PSYC	0.19	0.16	0.16	0.16	0.16	0.16
SOCI	0.15	0.14	0.15	0.13	0.14	0.14

Covariance Matrix

	LONG	FRIE	VISI	MOTI	KNOW	ETHI
LONG	0.23					
FRIE	0.20	0.26				
VISI	0.12	0.14	0.20			
MOTI	0.14	0.17	0.16	0.25		
KNOW	0.14	0.15	0.16	0.21	0.25	

ETHI	0.14	0.17	0.16	0.21	0.21	0.28
RELA	0.14	0.16	0.16	0.20	0.20	0.22
PHYS	0.12	0.13	0.10	0.13	0.13	0.12
PSYC	0.15	0.15	0.11	0.15	0.15	0.14
SOCI	0.15	0.16	0.13	0.16	0.16	0.17
Covariance Matrix						
	RELA	PHYS	PSYC	SOCI		
	-----	-----	-----	-----		
RELA	0.26					
PHYS	0.13	0.24				
PSYC	0.15	0.18	0.27			
SOCI	0.16	0.14	0.17	0.24		
TI path						
Parameter Specifications						
LAMBDA-Y						
	LEARN	COMMUN	EFFECT			
	-----	-----	-----			
ADAP	0	0	0			
ACOM	0	0	1			
ATIT	0	0	2			
MANA	0	0	3			
SATI	0	0	4			
EDUC	0	0	0			
STAN	5	0	0			
COLE	6	0	0			
DEVE	7	0	0			
LEAR	8	0	0			
TEAM	0	0	0			
VSIO	0	9	0			
LONG	0	10	0			
FRIE	0	11	0			
LAMBDA-X						
	LEADER	EVIRO				
	-----	-----				

VISI	12	0						
MOTI	13	0						
KNOW	14	0						
ETHI	15	0						
RELA	16	0						
PHYS	0	17						
PSYC	0	18						
SOCI	0	19						
BETA								
	LEARN	COMMUN	EFFECT					
	-----	-----	-----					
LEARN	0	20	0					
COMMUN	0	0	0					
EFFECT	21	22	0					
GAMMA								
	LEADER	EVIRON						
	-----	-----						
LEARN	23	24						
COMMUN	25	26						
EFFECT	27	28						
PHI								
	LEADER	EVIRON						
	-----	-----						
LEADER	0							
EVIRON	29	0						
PSI								
	LEARN	COMMUN	EFFECT					
	-----	-----	-----					
	30	31	32					
THETA-EPS								
	ADAP	ACOM	ATIT	MANA	SATI	EDUC		
	-----	-----	-----	-----	-----	-----		
ADAP	33							
ACOM	34	35						

ATIT	36	37	38			
MANA	0	39	0	40		
SATI	0	0	0	41	42	
EDUC	0	0	0	0	0	43
STAN	0	0	44	0	0	45
COLE	0	0	0	0	0	47
DEVE	0	0	0	0	50	0
LEAR	0	0	0	54	0	0
TEAM	56	0	0	0	0	0
VSIO	0	0	0	0	0	0
LONG	0	62	0	0	0	0
FRIE	0	67	0	68	0	0

THETA-EPS

STAN	COLE	DEVE	LEAR	TEAM	VSIO
------	------	------	------	------	------

STAN	46					
COLE	48	49				
DEVE	51	52	53			
LEAR	0	0	0	55		
TEAM	0	0	0	57	58	
VSIO	0	0	0	59	60	61
LONG	0	0	63	64	0	65
FRIE	0	0	69	70	0	71

THETA-EPS

LONG	FRIE
------	------

LONG	66
FRIE	72
	73

THETA-DELTA-EPS

VISI	78					
MOTI	0	83				
KNOW	0	86	87			
ETHI	0	92	93	94		
RELA	0	0	0	102	103	
PHYS	0	0	0	0	0	106
PSYC	110	0	0	0	0	111
SOCI	0	0	0	120	0	0

THETA-DELTA

	PSYC	SOCI
PSYC	112	
SOCI	0	121

TI path

Number of Iterations =125

LISREL Estimates (Maximum Likelihood)

LAMBDA-Y

	LEARN	COMMUN	EFFECT
ADAP	--	--	0.36
ACOM	--	--	0.39
		(0.02)	
		18.60	
ATIT	--	--	0.38
		(0.02)	
		16.90	
MANA	--	--	0.30
		(0.02)	
		12.81	
SATI	--	--	0.39
		(0.02)	

		15.55	
EDUC	0.42	--	--
STAN	0.45	--	--
	(0.02)		
	28.89		
COLE	0.43	--	--
	(0.01)		
	29.67		
DEVE	0.42	--	--
	(0.02)		
	27.21		
LEAR	0.41	--	--
	(0.01)		
	27.53		
TEAM	--	0.44	--
VSIO	--	0.43	--
	(0.01)		
	29.85		
LONG	--	0.39	--
	(0.02)		
	21.40		
FRIE	--	0.41	--
	(0.02)		
	20.43		
LAMBDA-X			
LEADER		EVIRO	
-----		-----	
VISI	0.35	--	
	(0.02)		
	20.31		

MOTI	0.45	--	
	(0.02)		
	23.72		
KNOW	0.45	--	
	(0.02)		
	23.46		
ETHI	0.43	--	
	(0.02)		
	20.52		
RELA	0.44	--	
	(0.02)		
	22.78		
PHYS	--	0.36	
	(0.02)		
	17.38		
PSYC	--	0.43	
	(0.02)		
	20.26		
SOCI	--	0.40	
	(0.02)		
	20.00		
BETA			
	LEARN	COMMUN	EFFECT
	-----	-----	-----
LEARN	--	0.52	--
	(0.09)		
	5.87		
COMMUN	--	--	--

EFFECT	1.20	0.15	--
	(0.26)	(0.15)	
	4.66	5.88	

GAMMA

LEADER	EVIRON
--------	--------

LEARN	0.11	0.57
	(0.06)	(0.11)
	2.98	5.36

COMMUN	0.18	0.72
	(0.08)	(0.09)
	3.10	8.24

EFFECT	0.20	0.30
	(0.09)	(0.22)
	2.97	3.39

Covariance Matrix of ETA and KSI

LEARN	COMMUN	EFFECT	LEADER	EVIRON
-------	--------	--------	--------	--------

LEARN	1.00				
COMMUN	0.93	1.00			
EFFECT	0.93	0.85	1.00		
LEADER	0.75	0.77	0.74	1.00	
EVIRON	0.93	0.87	0.84	0.82	1.00

PHI

LEADER	EVIRON
--------	--------

LEADER	1.00
--------	------

EVIRON	0.82	1.00
	(0.02)	
	34.37	

PSI

Note: This matrix is diagonal.

LEARN	COMMUN	EFFECT
-----	-----	-----
0.08	0.24	0.12
(0.02)	(0.04)	(0.03)
3.63	6.27	3.43

Squared Multiple Correlations for Structural Equations

LEARN	COMMUN	EFFECT
-----	-----	-----
0.92	0.76	0.88

Squared Multiple Correlations for Reduced Form

LEARN	COMMUN	EFFECT
-----	-----	-----
0.86	0.76	0.72

Reduced Form

	LEADER	EVIRO
	-----	-----
LEARN	0.02	0.94
	(0.08)	(0.09)
	0.21	10.40
COMMUN	0.18	0.72
	(0.08)	(0.09)
	2.20	8.24
EFFECT	0.16	0.60
	(0.09)	(0.10)
	1.75	7.21

THETA-EPS

	ADAP	ACOM	ATIT	MANA	SATI	EDUC
	-----	-----	-----	-----	-----	-----
ADAP	0.15					
	(0.01)					

	13.30					
ACOM	0.04	0.09				
	(0.01)	(0.01)				
	5.95	11.90				
ATIT	0.03	0.03	0.09			
	(0.01)	(0.01)	(0.01)			
	3.98	4.71	12.11			
MANA	--	0.01	--	0.11		
		(0.00)		(0.01)		
		1.71		13.20		
SATI	--	--	--	0.02	0.06	
				(0.01)	(0.01)	
				3.39	10.81	
EDUC	--	--	--	--	0.05	
					(0.00)	
					12.32	
STAN	--	--	0.01	--	--	0.02
			(0.00)			(0.00)
			2.16			5.39
COLE	--	--	--	--	--	0.01
						(0.00)
						2.72
DEVE	--	--	--	--	0.01	--
					(0.00)	
					2.71	
LEAR	--	--	--	0.01	--	--
				(0.00)		
						2.46

TEAM	0.01	--	--	--	--	--
	(0.00)					
	2.29					
VSIO	--	--	--	--	--	--
LONG	--	0.01	--	--	--	--
	(0.00)					
	3.20					
FRIE	--	0.01	--	0.01	--	--
	(0.00)			(0.00)		
	2.12			3.47		
THETA-EPS						
	STAN	COLE	DEVE	LEAR	TEAM	VSIO

STAN	0.08					
	(0.01)					
	12.60					
COLE	0.02	0.05				
	(0.00)	(0.00)				
	5.45	10.56				
DEVE	0.01	0.01	0.04			
	(0.00)	(0.00)	(0.00)			
	3.16	2.68	11.45			
LEAR	--	--	--	0.04		
				(0.00)		
				11.34		
TEAM	--	--	--	0.02	0.06	
				(0.00)	(0.01)	
				4.58	9.84	
VSIO	--	--	--	0.01	0.03	0.07

			(0.00)	(0.01)	(0.01)	
			3.42	5.76	10.43	
LONG	--	--	0.01	0.01	--	0.01
			(0.00)	(0.00)		(0.00)
			3.59	2.94		3.58
FRIE	--	--	0.02	0.01	--	0.02
			(0.00)	(0.00)		(0.00)
			4.58	1.99		4.78
THETA-EPS						
	LONG	FRIE				
	-----	-----				
LONG	0.07					
	(0.01)					
	11.29					
FRIE	0.04	0.09				
	(0.01)	(0.01)				
	7.34	12.18				
Squared Multiple Correlations for Y – Variables						
	ADAP	ACOM	ATIT	MANA	SATI	EDUC
	-----	-----	-----	-----	-----	-----
	0.47	0.64	0.62	0.46	0.70	0.77
Squared Multiple Correlations for Y – Variables						
	STAN	COLE	DEVE	LEAR	TEAM	VSIO
	-----	-----	-----	-----	-----	-----
	0.71	0.80	0.80	0.81	0.75	0.72
Squared Multiple Correlations for Y – Variables						

	LONG	FRIE				
	-----	-----				
	0.69	0.64				
THETA-DELTA-EPS						
	ADAP	ACOM	ATIT	MANA	SATI	EDUC
	-----	-----	-----	-----	-----	-----
VISI	--	--	--	0.04	0.02	--
			(0.01)	(0.00)		
			7.69	5.54		
MOTI	--	--	--	0.03	--	--
			(0.01)			
			4.78			
KNOW	--	--	--	0.02	--	--
			(0.01)			
			2.85			
ETHI	--	--	--	0.02	--	--
			(0.01)			
			4.17			
RELA	--	--	--	0.02	0.01	0.01
			(0.01)	(0.00)	(0.00)	
			3.92	2.36	2.57	
PHYS	--	0.01	--	--	--	--
	(0.00)					
	1.85					
PSYC	--	--	--	--	--	--
SOCI	-0.01	-0.02	--	--	--	--
	(0.01)	(0.00)				
	-2.04	-5.25				

THETA-DELTA-EPS						
	STAN	COLE	DEVE	LEAR	TEAM	VSIO

VISI	--	0.00	--	--	--	--
		(0.00)				
		1.86				
MOTI	--	--	0.00	--	--	0.01
		(0.00)			(0.00)	
		-2.07			2.15	
KNOW	--	--	--	--	--	--
ETHI	--	-0.01	0.00	--	--	--
		(0.00)	(0.00)			
		-2.06	1.43			
RELA	0.01	--	--	0.01	0.01	--
	(0.00)			(0.00)	(0.00)	
	3.42		3.58	3.55		
PHYS	--	--	--	--	0.01	--
				(0.00)		
				2.26		
PSYC	0.01	-0.01	-0.01	--	--	--
	(0.00)	(0.00)	(0.00)			
	1.52	-3.02	-3.35			
SOCI	--	-0.01	--	-0.01	-0.01	--
		(0.00)		(0.00)	(0.00)	
		-3.70		-3.90	-3.21	
THETA-DELTA-EPS						
	LONG	FRIE				

VISI	--	0.01				
		(0.00)				

						3.77
MOTI	--		0.02			
			(0.00)			
			4.41			
KNOW	--		0.01			
			(0.00)			
			2.05			
ETHI	--		0.03			
			(0.00)			
			5.12			
RELA	--		0.01			
			(0.00)			
			3.15			
PHYS	--	--				
PSYC	--	--				
SOCI	0.01		0.02			
	(0.00)		(0.00)			
	3.38		4.16			
THETA-DELTA						
	VISI	MOTI	KNOW	ETHI	RELA	PHYS
	-----	-----	-----	-----	-----	-----
VISI	0.07					
	(0.01)					
	12.64					
MOTI	--		0.05			
			(0.01)			
			8.90			

KNOW	--	0.01	0.05			
		(0.00)	(0.01)			
		2.24	9.09			
ETHI	--	0.01	0.01	0.08		
		(0.00)	(0.00)	(0.01)		
		3.04	2.40	10.59		
RELA	--	--	--	0.03	0.06	
				(0.00)	(0.01)	
				5.38	10.95	
PHYS	--	--	--	--	--	0.11
					(0.01)	
					12.75	
PSYC	-0.01	--	--	--	--	0.03
	(0.00)				(0.01)	
	-2.50				4.38	
SOCI	--	--	--	0.02	--	--
				(0.00)		
				4.06		
THETA-DELTA						
	PSYC	SOCI				
	-----	-----				
PSYC	0.09					
	(0.01)					
	11.07					
SOCI	--	0.08				
	(0.01)					
	11.59					

Squared Multiple Correlations for X – Variables

VISI	MOTI	KNOW	ETHI	RELA	PHYS
0.65	0.81	0.80	0.69	0.76	0.55

Squared Multiple Correlations for X – Variables

PSYC	SOCI
0.68	0.66

0.15159D+00 0.41052D-01 0.85570D-01 0.27131D-01 0.25982D-01 0.88527D-01
0.00000D+00 0.68790D-02 0.00000D+00 0.10585D+00 0.00000D+00 0.00000D+00
0.00000D+00 0.17047D-01 0.63338D-01 0.00000D+00 0.00000D+00 0.00000D+00
0.00000D+00 0.00000D+00 0.54603D-01 0.00000D+00 0.00000D+00 0.74193D-02
0.00000D+00 0.00000D+00 0.21065D-01 0.81999D-01 0.00000D+00 0.00000D+00
0.00000D+00 0.00000D+00 0.00000D+00 0.85211D-02 0.22934D-01 0.45959D-01
0.00000D+00 0.00000D+00 0.00000D+00 0.00000D+00 -0.74674D-02 0.00000D+00
0.10496D-01 0.78781D-02 0.44193D-01 0.00000D+00 0.00000D+00 0.00000D+00
-0.73036D-02 0.00000D+00 0.00000D+00 0.00000D+00 0.00000D+00 0.00000D+00
0.38741D-01 0.91745D-02 0.00000D+00 0.00000D+00 0.00000D+00 0.00000D+00
0.00000D+00 0.00000D+00 0.00000D+00 0.00000D+00 0.16725D-01 0.62342D-01
0.00000D+00 0.00000D+00 0.00000D+00 0.00000D+00 0.00000D+00 0.00000D+00
0.00000D+00 0.00000D+00 0.00000D+00 0.12713D-01 0.29401D-01 0.72076D-01
0.00000D+00 -0.11467D-01 0.00000D+00 0.00000D+00 0.00000D+00 0.00000D+00
0.00000D+00 0.00000D+00 0.10990D-01 0.10350D-01 0.00000D+00 0.13952D-01
0.70920D-01 0.00000D+00 -0.79879D-02 0.00000D+00 0.13712D-01 0.00000D+00
0.00000D+00 0.00000D+00 0.00000D+00 0.15405D-01 0.72368D-02 0.00000D+00
0.19958D-01 0.40823D-01 0.91071D-01 0.00000D+00 0.00000D+00 0.00000D+00
0.42734D-01 0.21793D-01 0.00000D+00 0.00000D+00 0.46760D-02 0.00000D+00
0.00000D+00 0.00000D+00 0.00000D+00 0.00000D+00 0.14972D-01 0.66310D-01
0.00000D+00 0.00000D+00 0.00000D+00 0.25715D-01 0.00000D+00 0.00000D+00
0.00000D+00 0.00000D+00 -0.49750D-02 0.00000D+00 0.00000D+00 0.55851D-02
0.00000D+00 0.19742D-01 0.00000D+00 0.47054D-01 0.00000D+00 0.00000D+00
0.00000D+00 0.15507D-01 0.00000D+00 0.00000D+00 0.00000D+00 0.00000D+00
0.00000D+00 0.00000D+00 0.00000D+00 0.00000D+00 0.00000D+00 0.90818D-02
0.00000D+00 0.97430D-02 0.50155D-01 0.00000D+00 0.00000D+00 0.00000D+00
0.24217D-01 0.00000D+00 0.00000D+00 0.00000D+00 -0.54917D-02 0.41302D-02
0.00000D+00 0.00000D+00 0.00000D+00 0.00000D+00 0.25507D-01 0.00000D+00
0.13396D-01 0.10675D-01 0.83454D-01 0.00000D+00 0.00000D+00 0.00000D+00
0.21897D-01 0.79223D-02 0.75757D-02 0.10892D-01 0.00000D+00 0.00000D+00

0.92674D-02 0.10290D-01 0.00000D+00 0.00000D+00 0.13959D-01 0.00000D+00
 0.00000D+00 0.00000D+00 0.25230D-01 0.61195D-01 0.00000D+00 0.75865D-02
 0.00000D+00 0.00000D+00 0.00000D+00 0.00000D+00 0.00000D+00 0.00000D+00
 0.00000D+00 0.00000D+00 0.81352D-02 0.00000D+00 0.00000D+00 0.00000D+00
 0.00000D+00 0.00000D+00 0.00000D+00 0.00000D+00 0.00000D+00 0.10994D+00
 0.00000D+00 0.00000D+00 0.00000D+00 0.00000D+00 0.00000D+00 0.00000D+00
 0.62484D-02 -0.10683D-01 -0.11444D-01 0.00000D+00 0.00000D+00 0.00000D+00
 0.00000D+00 0.00000D+00 -0.92820D-02 0.00000D+00 0.00000D+00 0.00000D+00
 0.00000D+00 0.27792D-01 0.87450D-01 -0.11377D-01 -0.23169D-01 0.00000D+00
 0.00000D+00 0.00000D+00 0.00000D+00 0.00000D+00 -0.11716D-01 0.00000D+00
 -0.12540D-01 -0.11521D-01 0.00000D+00 0.14521D-01 0.19156D-01 0.00000D+00
 0.00000D+00 0.00000D+00 0.15660D-01 0.00000D+00 0.00000D+00 0.00000D+00
 0.81692D-01

TH was written to file C:\Users\Tong\Desktop\Aor\path.OUT

Goodness of Fit Statistics

Degrees of Freedom = 132

Minimum Fit Function Chi-Square = 156.89 (P = 0.069)

Normal Theory Weighted Least Squares Chi-Square = 154.73 (P = 0.086)

Estimated Non-centrality Parameter (NCP) = 22.73

90 Percent Confidence Interval for NCP = (0.0 ; 57.89)

Minimum Fit Function Value = 0.36

Population Discrepancy Function Value (FO) = 0.052

90 Percent Confidence Interval for FO = (0.0 ; 0.13)

Root Mean Square Error of Approximation (RMSEA) = 0.020

90 Percent Confidence Interval for RMSEA = (0.0 ; 0.032)

P-Value for Test of Close Fit (RMSEA < 0.05) = 1.00

Expected Cross-Validation Index (ECVI) = 0.90

90 Percent Confidence Interval for ECVI = (0.85 ; 0.98)

ECVI for Saturated Model = 1.15

ECVI for Independence Model = 86.63

Chi-Square for Independence Model with 231 Degrees of Freedom = 37986.22

Independence AIC = 38030.22

Model AIC = 396.73
 Saturated AIC = 506.00
 Independence CAIC = 38142.13
 Model CAIC = 1012.23
 Saturated CAIC = 1792.95

Normed Fit Index (NFI) = 1.00
 Non-Normed Fit Index (NNFI) = 1.00
 Parsimony Normed Fit Index (PNFI) = 0.57
 Comparative Fit Index (CFI) = 1.00
 Incremental Fit Index (IFI) = 1.00
 Relative Fit Index (RFI) = 0.99

Critical N (CN) = 484.27

Root Mean Square Residual (RMR) = 0.0059
 Standardized RMR = 0.025
 Goodness of Fit Index (GFI) = 0.97
 Adjusted Goodness of Fit Index (AGFI) = 0.94
 Parsimony Goodness of Fit Index (PGFI) = 0.51

TI path

Fitted Covariance Matrix

	ADAP	ACOM	ATIT	MANA	SATI	EDUC
ADAP	0.28					
ACOM	0.18	0.24				
ATIT	0.16	0.17	0.23			
MANA	0.11	0.12	0.11	0.20		
SATI	0.14	0.15	0.15	0.13	0.21	
EDUC	0.14	0.15	0.15	0.12	0.15	0.23
STAN	0.15	0.16	0.17	0.13	0.16	0.21
COLE	0.14	0.16	0.15	0.12	0.15	0.19
DEVE	0.14	0.15	0.15	0.12	0.15	0.18
LEAR	0.14	0.15	0.14	0.11	0.15	0.17
TEAM	0.14	0.15	0.14	0.11	0.14	0.17

VSIO	0.13	0.14	0.14	0.11	0.14	0.17
LONG	0.12	0.12	0.13	0.10	0.13	0.15
FRIE	0.13	0.13	0.13	0.12	0.13	0.16
VISI	0.10	0.10	0.10	0.12	0.12	0.11
MOTI	0.12	0.13	0.13	0.12	0.13	0.14
KNOW	0.12	0.13	0.13	0.12	0.13	0.14
ETHI	0.12	0.13	0.12	0.12	0.12	0.14
RELA	0.12	0.13	0.12	0.12	0.14	0.15
PHYS	0.11	0.13	0.12	0.09	0.12	0.14
PSYC	0.13	0.14	0.14	0.11	0.14	0.17
SOCI	0.11	0.11	0.13	0.10	0.13	0.16

Fitted Covariance Matrix

	STAN	COLE	DEVE	LEAR	TEAM	VSIO
STAN	0.28					
COLE	0.22	0.23				
DEVE	0.20	0.19	0.22			
LEAR	0.18	0.18	0.17	0.21		
TEAM	0.18	0.17	0.17	0.18	0.25	
VSIO	0.18	0.17	0.17	0.17	0.22	0.25
LONG	0.16	0.16	0.16	0.16	0.17	0.18
FRIE	0.17	0.16	0.17	0.16	0.18	0.19
VISI	0.12	0.12	0.11	0.11	0.12	0.12
MOTI	0.15	0.14	0.14	0.14	0.15	0.15
KNOW	0.15	0.14	0.14	0.14	0.15	0.15
ETHI	0.15	0.13	0.14	0.13	0.15	0.14
RELA	0.16	0.14	0.14	0.15	0.16	0.15
PHYS	0.15	0.14	0.14	0.14	0.15	0.13
PSYC	0.18	0.16	0.16	0.16	0.16	0.16
SOCI	0.17	0.15	0.15	0.14	0.14	0.15

Fitted Covariance Matrix

	LONG	FRIE	VISI	MOTI	KNOW	ETHI
LONG	0.23					
FRIE	0.20	0.26				

VISI	0.11	0.13	0.19			
MOTI	0.14	0.16	0.16	0.25		
KNOW	0.14	0.15	0.16	0.21	0.25	
ETHI	0.13	0.16	0.15	0.21	0.21	0.27
RELA	0.13	0.15	0.16	0.20	0.20	0.22
PHYS	0.12	0.13	0.11	0.13	0.13	0.13
PSYC	0.15	0.15	0.11	0.16	0.16	0.15
SOCI	0.15	0.16	0.11	0.15	0.15	0.16

Fitted Covariance Matrix

	RELA	PHYS	PSYC	SOCI
RELA	0.26			
PHYS	0.13	0.24		
PSYC	0.15	0.18	0.27	
SOCI	0.14	0.14	0.17	0.24

Fitted Residuals

	ADAP	ACOM	ATIT	MANA	SATI	EDUC
ADAP	0.00					
ACOM	0.00	0.00				
ATIT	0.00	0.00	0.00			
MANA	-0.01	0.00	0.01	0.00		
SATI	0.00	0.00	0.00	0.00	0.00	
EDUC	0.01	0.01	0.01	0.00	0.01	0.00
STAN	0.01	0.01	0.00	-0.01	0.00	0.00
COLE	0.01	0.01	0.00	-0.01	0.00	0.00
DEVE	0.00	0.00	0.00	0.00	0.00	0.00
LEAR	0.00	0.00	0.00	0.00	0.00	0.00
TEAM	0.00	-0.01	0.00	0.00	0.00	0.00
VSIO	0.00	0.00	0.00	0.01	0.00	-0.01
LONG	0.00	0.00	-0.01	0.02	0.01	-0.01
FRIE	-0.01	-0.01	0.00	0.01	0.01	-0.01
VISI	0.00	-0.01	0.00	0.00	0.01	0.01
MOTI	0.00	-0.01	0.00	0.00	0.01	0.00

KNOW	0.00	-0.01	0.00	0.00	0.01	0.01
ETHI	-0.01	-0.02	-0.01	0.00	0.00	0.00
RELA	-0.01	-0.02	-0.01	0.00	0.00	0.00
PHYS	0.01	0.00	0.00	0.00	0.00	0.01
PSYC	0.01	0.00	0.00	0.01	0.01	0.01
SOCI	0.00	-0.01	-0.01	0.00	0.00	0.00

Fitted Residuals

	STAN	COLE	DEVE	LEAR	TEAM	VSIO
STAN	0.00					
COLE	0.00	0.00				
DEVE	0.00	0.00	0.00			
LEAR	0.00	0.00	0.00	0.00		
TEAM	0.01	0.01	0.00	0.00	0.00	
VSIO	0.01	0.00	0.00	0.00	0.00	0.00
LONG	0.00	0.00	0.00	0.00	0.00	0.00
FRIE	-0.01	0.00	0.00	0.00	0.00	0.00
VISI	0.00	0.00	0.00	0.01	0.01	0.01
MOTI	-0.01	-0.01	0.00	0.00	0.00	0.00
KNOW	-0.01	-0.01	0.00	0.00	-0.01	0.00
ETHI	-0.02	-0.01	-0.01	-0.01	-0.01	0.00
RELA	-0.01	0.00	0.00	0.00	0.00	0.00
PHYS	0.00	0.00	0.00	0.00	0.00	0.00
PSYC	0.00	0.00	0.00	0.00	0.00	0.00
SOCI	-0.01	-0.01	-0.01	0.00	0.00	0.00

Fitted Residuals

	LONG	FRIE	VISI	MOTI	KNOW	ETHI
LONG	0.00					
FRIE	0.00	0.01				
VISI	0.01	0.01	0.00			
MOTI	0.01	0.01	0.00	0.00		
KNOW	0.00	0.00	0.00	0.00	0.00	
ETHI	0.00	0.01	0.01	0.01	0.00	0.01
RELA	0.01	0.01	0.00	0.00	0.00	0.00

PHYS	0.00	0.00	0.00	0.00	0.00	-0.01
PSYC	0.00	0.00	0.00	-0.01	-0.01	-0.01
SOCI	0.00	0.00	0.01	0.01	0.02	0.01

Fitted Residuals

	RELA	PHYS	PSYC	SOCI
RELA	0.00			
PHYS	0.00	0.00		
PSYC	-0.01	0.00	0.00	
SOCI	0.02	0.00	0.00	0.00

Summary Statistics for Fitted Residuals

Smallest Fitted Residual = -0.02

Median Fitted Residual = 0.00

Largest Fitted Residual = 0.02

Stemleaf Plot

-20|4
-18|3
-16|
-14|9
-12|222
-10|44921
- 8|8655766550
- 6|99887998776441
- 4|9776528876332
- 2|554332211186665332211100
- 0|98876644322111009888877777665444333221110
0|22233344556666799999001222333556667789999
2|000000223334466688999991144456666789
4|0335666777889111223335577
6|134478801133556
8|0255056
10|38
12|35823

1414446

16117

Standardized Residuals

	ADAP	ACOM	ATIT	MANA	SATI	EDUC
ADAP	-0.44					
ACOM	0.21	1.40				
ATIT	1.12	1.83	1.09			
MANA	-1.20	-0.90	1.40	1.06		
SATI	-0.94	0.39	0.35	1.57	1.42	
EDUC	1.90	3.15	1.52	-0.28	2.01	0.58
STAN	2.27	2.35	0.78	-1.68	-0.22	0.93
COLE	1.58	1.81	-0.25	-1.99	-0.78	1.07
DEVE	-0.02	-0.25	-1.54	0.17	0.17	-1.03
LEAR	1.17	-0.15	-0.67	1.42	0.07	-1.27
TEAM	-0.83	-2.14	-0.27	1.00	-0.47	-0.84
VSIO	-0.54	-0.61	0.68	2.92	0.93	-2.78
LONG	-0.12	-1.26	-1.31	3.24	1.90	-3.50
FRIE	-0.82	-1.73	-0.58	3.50	1.56	-3.35
VISI	-0.33	-1.40	0.89	1.71	2.19	1.66
MOTI	-0.66	-2.85	0.13	1.55	1.65	-0.34
KNOW	-0.15	-2.39	0.41	1.96	2.28	1.23
ETHI	-1.29	-3.80	-1.37	0.70	0.11	-0.96
RELA	-0.99	-3.80	-1.28	-0.25	0.40	0.51
PHYS	1.01	-0.29	-0.06	-0.45	-0.45	1.97
PSYC	0.83	-0.10	0.98	1.27	1.38	2.14
SOCI	-0.52	-2.17	-1.20	0.75	0.60	-1.38

Standardized Residuals

	STAN	COLE	DEVE	LEAR	TEAM	VSIO
STAN	0.88					
COLE	1.49	2.47				
DEVE	-0.64	1.35	-1.64			
LEAR	0.96	2.56	2.12	1.32		
TEAM	2.75	2.97	1.31	1.29	1.37	

VSIO	1.39	0.91	1.48	0.58	1.15	0.32
LONG	-0.99	-0.02	-0.51	0.17	1.48	1.34
FRIE	-1.91	-0.19	-0.38	0.12	0.33	1.27
VISI	-0.90	-0.60	0.83	1.38	1.28	2.29
MOTI	-2.04	-2.29	-0.62	-0.34	-0.28	0.66
KNOW	-1.55	-1.64	-0.58	-0.11	-1.57	-0.53
ETHI	-2.68	-3.21	-1.72	-1.84	-1.24	-0.17
RELA	-1.56	-1.15	0.40	-0.63	-0.05	1.05
PHYS	0.77	1.05	-0.02	-0.36	0.42	0.43
PSYC	1.18	1.65	1.52	0.50	0.01	-0.20
SOCI	-3.13	-4.48	-3.35	-2.63	-0.50	-0.83

Standardized Residuals

	LONG	FRIE	VISI	MOTI	KNOW	ETHI
LONG	1.03					
FRIE	2.38	2.67				
VISI	3.13	4.00	3.19			
MOTI	1.85	2.74	2.26	1.88		
KNOW	0.53	1.34	2.14	1.95	2.06	
ETHI	0.95	1.65	3.25	3.45	3.48	4.02
RELA	1.63	2.60	1.17	1.85	1.44	2.58
PHYS	-0.70	0.10	-0.67	-0.15	0.05	-1.68
PSYC	0.43	0.66	-0.46	-2.44	-2.06	-2.27
SOCI	-1.52	-0.11	2.74	3.29	4.17	3.36

Standardized Residuals

	RELA	PHYS	PSYC	SOCI
RELA	1.03			
PHYS	-0.51	-1.13		
PSYC	-1.89	-0.22	-0.20	
SOCI	4.03	-0.95	1.01	0.33

Summary Statistics for Standardized Residuals

Smallest Standardized Residual = -4.48

Median Standardized Residual = 0.33

Largest Standardized Residual = 4.17

Stemleaf Plot

- 4|5
 - 4|
 - 3|885
 - 3|4321
 - 2|8876
 - 2|443321100
 - 1|9987776666555
 - 1|44433332221100000
 - 0|99988887776666665555555
 - 0|444433333333322222221111110000
 0|11111222233344444444
 0|5556667777888889999
 1|000000001111122223333333344444444
 1|5555566666677788889999
 2|0001112333344
 2|566677789
 3|01122334
 3|555
 4|0002

Largest Negative Standardized Residuals

Residual for VSIO and EDUC -2.78
 Residual for LONG and EDUC -3.50
 Residual for FRIE and EDUC -3.35
 Residual for MOTI and ACOM -2.85
 Residual for ETHI and ACOM -3.80
 Residual for ETHI and STAN -2.68
 Residual for ETHI and COLE -3.21
 Residual for RELA and ACOM -3.80
 Residual for SOCI and STAN -3.13
 Residual for SOCI and COLE -4.48
 Residual for SOCI and DEVE -3.35



