

DATE: 8/ 7/2017
TIME: 13:53

L I S R E L 8.80

Universitas BY
Esa Unggul
Karl G. Jöreskog & Dag Sörbom

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., 1981-2006
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\Novi\Desktop\novianti.pr2:

raw data from file novianti.psf
latent variable: KL KE KR LP
relationship
KL1 = KL
KL2 = KL
KL3 = KL
KL4 = KL
KL5 = KL
KE1 = KE
KE2 = KE
KE3 = KE
KE4 = KE
KR1 = KR
KR2 = KR
LP1 = LP
LP2 = LP
LP3 = LP
LP4 = LP

SET ERROR COVARIANCE OF LP1 AND KR2 FREE
SET ERROR COVARIANCE OF LP3 AND LP1 FREE
SET ERROR COVARIANCE OF KL5 AND KL1 FREE

SET ERROR COVARIANCE OF KE4 AND KE3 FREE
 SET ERROR COVARIANCE OF LP4 AND KR2 FREE
 SET ERROR COVARIANCE OF KL1 AND KE1 FREE
 SET ERROR COVARIANCE OF LP3 AND LP2 FREE

LP = KE KR
 KR = KE
 KE = KL

Options SC
 Path Diagram
 End of problems

Sample Size = 180

Covariance Matrix

KE1	KE2	KE3	KE4	KR1	KR2		
KE1	0.54						
KE2	0.15	0.47					
KE3	0.11	0.08	0.44				
KE4	0.11	0.13	0.19	0.55			
KR1	0.11	0.04	0.00	-0.02	1.00		
KR2	0.06	0.00	0.06	-0.02	0.56	1.00	
LP1	0.04	0.00	0.09	-0.03	0.56	0.75	
LP2	0.02	-0.03	0.04	-0.06	0.40	0.37	
LP3	0.03	0.01	0.02	0.00	0.44	0.40	
LP4	0.04	0.00	0.00	-0.01	0.46	0.28	
KL1	0.08	0.18	0.13	0.09	-0.01	0.00	
KL2	0.09	0.11	0.07	0.04	-0.11	0.02	
KL3	0.14	0.13	0.16	0.11	-0.07	0.01	
KL4	0.22	0.11	0.10	0.06	-0.02	0.04	
KL5	0.26	0.22	0.08	0.08	0.00	0.01	

Covariance Matrix

LP1	LP2	LP3	LP4	KL1	KL2
LP1	1.03				
LP2	0.41	0.66			
LP3	0.38	0.49	0.69		
LP4	0.50	0.39	0.49	0.77	
KL1	0.02	-0.02	-0.06	-0.01	1.00

KL2	0.04	-0.06	-0.07	-0.06	0.41	1.00
KL3	-0.02	-0.04	-0.04	-0.02	0.36	0.24
KL4	0.01	-0.02	0.04	-0.02	0.48	0.24
KL5	0.04	-0.05	-0.01	0.05	0.38	0.32

Covariance Matrix

	KL3	KL4	KL5
KL3	1.00		
KL4	0.41	1.00	
KL5	0.50	0.65	1.00

Number of Iterations = 10

LISREL Estimates (Maximum Likelihood)

Measurement Equations

KE1 = 0.46*KE, Errorvar.= 0.32 , R² = 0.40
(0.057)
5.64

KE2 = 0.38*KE, Errorvar.= 0.33 , R² = 0.30
(0.085) (0.045)
4.42 7.22

KE3 = 0.22*KE, Errorvar.= 0.39 , R² = 0.11
(0.068) (0.044)
3.27 8.85

KE4 = 0.24*KE, Errorvar.= 0.49 , R² = 0.10
(0.076) (0.055)
3.16 8.90

KR1 = 0.76*KR, Errorvar.= 0.42 , R² = 0.58
(0.071)
5.90

KR2 = 0.69*KR, Errorvar.= 0.51 , R² = 0.48
(0.090) (0.074)
7.69 6.83

LP1 = 0.74*LP, Errorvar.= 0.47 , R² = 0.54
 (0.067)
 7.02

LP2 = 0.57*LP, Errorvar.= 0.34 , R² = 0.49
 (0.069) (0.045)
 8.30 7.49

LP3 = 0.67*LP, Errorvar.= 0.23 , R² = 0.67
 (0.079) (0.044)
 8.55 5.24

LP4 = 0.70*LP, Errorvar.= 0.28 , R² = 0.63
 (0.074) (0.043)
 9.40 6.62

KL1 = 0.73*KL, Errorvar.= 0.47 , R² = 0.53
 (0.080) (0.087)
 9.10 5.40

KL2 = 0.42*KL, Errorvar.= 0.82 , R² = 0.18
 (0.073) (0.088)
 5.76 9.37

KL3 = 0.52*KL, Errorvar.= 0.73 , R² = 0.27
 (0.072) (0.079)
 7.28 9.17

KL4 = 0.70*KL, Errorvar.= 0.51 , R² = 0.49
 (0.070) (0.065)
 9.99 7.91

KL5 = 0.91*KL, Errorvar.= 0.17 , R² = 0.83
 (0.070) (0.076)
 13.01 2.22

Error Covariance for KE4 and KE3 = 0.13
 (0.037)
 3.64

Error Covariance for LP1 and KR2 = 0.27
 (0.065)
 4.15

Error Covariance for LP3 and LP1 = -0.11
 (0.028)
 -3.94

Error Covariance for LP3 and LP2 = 0.097
 (0.038)
 2.58

Error Covariance for LP4 and KR2 = -0.15
 (0.040)
 -3.69

Error Covariance for KL1 and KE1 = -0.13
 (0.044)
 -3.01

Error Covariance for KL5 and KL1 = -0.28
 (0.063)
 -4.50

Structural Equations

KE = 0.60*KL, Errorvar.= 0.64 , R² = 0.36
 (0.12) (0.23)
 5.13 2.80

KR = 0.11*KE, Errorvar.= 0.99 , R² = 0.011
 (0.11) (0.19)
 1.01 5.24

LP = -0.044*KE + 0.90*KR, Errorvar.= 0.19 , R² = 0.81
 (0.068) (0.13) (0.090)
 -0.65 6.97 2.13

Reduced Form Equations

KE = 0.60*KL, Errorvar.= 0.64, R² = 0.36
 (0.12)
 5.13

KR = 0.064*KL, Errorvar.= 1.00, R² = 0.0041
 (0.063)
 1.01

LP = 0.032*KL, Errorvar.= 1.00, R² = 0.0010
 (0.059)
 0.54

Correlation Matrix of Independent Variables

KL

 1.00

Covariance Matrix of Latent Variables

KE	KR	LP	KL
1.00			
0.11	1.00		
0.05	0.90	1.00	
0.60	0.06	0.03	1.00

Goodness of Fit Statistics

Degrees of Freedom = 79

Minimum Fit Function Chi-Square = 77.53 (P = 0.53)

Normal Theory Weighted Least Squares Chi-Square = 74.16 (P = 0.63)

Estimated Non-centrality Parameter (NCP) = 0.0

90 Percent Confidence Interval for NCP = (0.0 ; 18.91)

Minimum Fit Function Value = 0.43

Population Discrepancy Function Value (F0) = 0.0

90 Percent Confidence Interval for F0 = (0.0 ; 0.11)

Root Mean Square Error of Approximation (RMSEA) = 0.0

90 Percent Confidence Interval for RMSEA = (0.0 ; 0.037)

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 = (0.90 ; 1.01)

ECVI for Saturated Model = 1.34

ECVI for Independence Model = 7.76

Chi-Square for Independence Model with 105 Degrees of Freedom = 1359.79

Independence AIC = 1389.79

Model AIC = 156.16

Saturated AIC = 240.00

Independence CAIC = 1452.68

Model CAIC = 328.07
Saturated CAIC = 743.15

Normed Fit Index (NFI) = 0.94
Non-Normed Fit Index (NNFI) = 1.00
Parsimony Normed Fit Index (PNFI) = 0.71
Comparative Fit Index (CFI) = 1.00
Incremental Fit Index (IFI) = 1.00
Relative Fit Index (RFI) = 0.92

Critical N (CN) = 257.63

Root Mean Square Residual (RMR) = 0.036
Standardized RMR = 0.046
Goodness of Fit Index (GFI) = 0.95
Adjusted Goodness of Fit Index (AGFI) = 0.92
Parsimony Goodness of Fit Index (PGFI) = 0.62

Standardized Solution

LAMBDA-Y

KE	KR	LP	
KE1	0.46	--	--
KE2	0.38	--	--
KE3	0.22	--	--
KE4	0.24	--	--
KR1	--	0.76	--
KR2	--	0.69	--
LP1	--	--	0.74
LP2	--	--	0.57
LP3	--	--	0.67
LP4	--	--	0.70

LAMBDA-X

KL

KL1	0.73
KL2	0.42
KL3	0.52
KL4	0.70

KL5 0.91

BETA

KE KR LP

-----	-----	-----	-----
KE	--	--	--
KR	0.11	--	--
LP	-0.04	0.90	--

GAMMA

KL

-----	-----
KE	0.60
KR	--
LP	--

Correlation Matrix of ETA and KSI

KE	KR	LP	KL	-----
KE	1.00			
KR	0.11	1.00		
LP	0.05	0.90	1.00	
KL	0.60	0.06	0.03	1.00

PSI

Note: This matrix is diagonal.

KE	KR	LP	-----
0.64	0.99	0.19	

Regression Matrix ETA on KSI (Standardized)

KL

-----	-----
KE	0.60
KR	0.06
LP	0.03

Completely Standardized Solution

LAMBDA-Y

KE	KR	LP	
KE1	0.63	--	--
KE2	0.55	--	--
KE3	0.34	--	--
KE4	0.32	--	--
KR1	--	0.76	--
KR2	--	0.69	--
LP1	--	--	0.73
LP2	--	--	0.70
LP3	--	--	0.82
LP4	--	--	0.80

LAMBDA-X

KL

KL1	0.73
KL2	0.42
KL3	0.52
KL4	0.70
KL5	0.91

BETA

KE	KR	LP	
KE	--	--	--
KR	0.11	--	--
LP	-0.04	0.90	--

GAMMA

KL

KE	0.60
KR	--
LP	--

Correlation Matrix of ETA and KSI

KE	KR	LP	KL
----	----	----	----

KE	1.00			
KR	0.11	1.00		
LP	0.05	0.90	1.00	
KL	0.60	0.06	0.03	1.00

PSI

Note: This matrix is diagonal.

KE	KR	LP
0.64	0.99	0.19

THETA-EPS

KE1	KE2	KE3	KE4	KR1	KR2
0.60					
--	0.70				
--	--	0.89			
--	--	0.27	0.90		
--	--	--	--	0.42	
--	--	--	--	--	0.52
--	--	--	--	--	0.27
--	--	--	--	--	--
--	--	--	--	--	--
--	--	--	--	--	-0.17

THETA-EPS

LP1	LP2	LP3	LP4
0.46			
--	0.51		
-0.13	0.14	0.33	
--	--	--	0.37

THETA-DELTA-EPS

KE1	KE2	KE3	KE4	KR1	KR2
-0.18	--	--	--	--	--
--	--	--	--	--	--
--	--	--	--	--	--
--	--	--	--	--	--
--	--	--	--	--	--

THETA-DELTA-EPS

LP1	LP2	LP3	LP4
KL1	--	--	--
KL2	--	--	--
KL3	--	--	--
KL4	--	--	--
KL5	--	--	--

THETA-DELTA

KL1	KL2	KL3	KL4	KL5	
KL1	0.47				
KL2	--	0.82			
KL3	--	--	0.73		
KL4	--	--	--	0.51	
KL5	-0.28	--	--	--	0.17

Regression Matrix ETA on KSI (Standardized)

KL

KE	0.60
KR	0.06
LP	0.03

Time used: 0.047 Seconds