

LAMPIRAN 6

Hasil Uji SEM

DATE: 2/13/2018

TIME: 8:44

L I S R E L 8.80

BY

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The following lines were read from file D:\Nisya\hasilerorr5.spl:

Raw Data from file 'D:\Nisya\HASIL.PSF'

Sample Size = 160

Latent Variables KK LP KP

Relationships

KK1 = 1*KK

KK2 = KK

KK3 = KK

LP1 = 1*LP

LP2 = LP

LP3 = LP

LP4 = LP

LP5 = LP

LP6 = LP

LP7 = LP

LP8 = LP

LP9 = LP

KP1 = 1*KP

KP2 = KP

KP3 = KP

KP4 = KP

KP5 = KP

KP6 = KP

KP7 = KP

KP8 = KP

KP9 = KP

KP10 = KP

KP11 = KP

KP12 = KP

KP13 = KP

KP17 = KP

KP18 = KP

KP14 = KP

KP15 = KP
 KP16 = KP
 KP17 = KP
 KP18 = KP
 KP19 = KP
 KP20 = KP
 KK = KP
 LP = KP KK

set error covariance of LP7 and KK corralate
 set error covariance of LP1 and KK corralate
 set error covariance of KK2 and KK1 corralate
 set error covariance of LP4 and LP3 corralate
 set error covariance of LP9 and LP8 corralate
 set error covariance of LP9 and LP7 corralate
 set error covariance of KP12 and KP6 corralate
 set error covariance of KP13 and KP7 corralate
 set error covariance of KP20 and KP19 corralate
 set error covariance of KP17 and KP16 corralate

Path Diagram
 Admissibility Check = Off
 End of Problem

Sample Size = 160

Covariance Matrix

	KK1	KK2	KK3	LP1	LP2	LP3
KK1	0.87					
KK2	0.61	1.15				
KK3	0.60	0.83	0.83			
LP1	0.36	0.45	0.47	0.76		
LP2	0.19	0.29	0.36	0.55	0.82	
LP3	0.12	0.25	0.22	0.52	0.69	0.99
LP4	0.12	0.24	0.22	0.49	0.65	0.93
LP5	0.20	0.34	0.39	0.58	0.81	0.66
LP6	0.11	0.38	0.35	0.43	0.66	0.55
LP7	0.11	0.35	0.41	0.31	0.47	0.41
LP8	0.07	0.40	0.35	0.41	0.58	0.56
LP9	-0.03	0.24	0.22	0.27	0.43	0.35
KP1	0.66	0.66	0.58	0.30	0.10	0.07
KP2	0.62	0.72	0.56	0.25	0.14	0.10
KP3	0.50	0.80	0.51	0.19	0.07	0.03
KP4	0.38	0.66	0.50	0.22	0.14	0.04
KP5	0.49	0.81	0.70	0.35	0.27	0.16
KP6	0.64	0.74	0.62	0.24	0.14	0.05
KP7	0.48	0.56	0.43	0.24	0.25	0.23
KP8	0.64	0.72	0.56	0.32	0.16	0.13
KP9	0.59	0.82	0.64	0.31	0.17	0.14
KP10	0.49	1.02	0.71	0.31	0.17	0.14
KP11	0.45	0.79	0.68	0.32	0.25	0.15
KP12	0.58	0.73	0.61	0.23	0.13	0.06
KP13	0.55	0.65	0.52	0.30	0.30	0.29
KP14	0.67	0.62	0.58	0.37	0.31	0.22
KP15	0.56	0.75	0.66	0.51	0.49	0.42

KP16	0.67	0.63	0.55	0.40	0.25	0.25
KP17	0.67	0.70	0.60	0.44	0.29	0.26
KP18	0.72	0.63	0.62	0.46	0.25	0.18
KP19	0.58	0.69	0.57	0.36	0.34	0.30
KP20	0.52	0.70	0.55	0.36	0.29	0.31

Covariance Matrix

	LP4	LP5	LP6	LP7	LP8	LP9
LP4	0.93					
LP5	0.63	1.04				
LP6	0.55	0.71	0.94			
LP7	0.42	0.43	0.50	0.90		
LP8	0.51	0.53	0.55	0.63	0.93	
LP9	0.36	0.36	0.35	0.60	0.67	0.82
KP1	0.09	0.07	0.09	0.06	0.04	-0.02
KP2	0.14	0.11	0.13	0.12	0.10	0.02
KP3	0.05	0.04	0.11	0.09	0.10	0.02
KP4	0.06	0.18	0.21	0.18	0.16	0.06
KP5	0.19	0.28	0.30	0.28	0.28	0.18
KP6	0.10	0.16	0.25	0.13	0.13	0.10
KP7	0.25	0.18	0.17	0.07	0.11	0.07
KP8	0.14	0.14	0.15	0.09	0.13	-0.02
KP9	0.16	0.20	0.19	0.16	0.19	0.05
KP10	0.16	0.22	0.27	0.23	0.29	0.16
KP11	0.18	0.26	0.31	0.28	0.28	0.17
KP12	0.09	0.13	0.23	0.13	0.14	0.09
KP13	0.28	0.24	0.29	0.18	0.17	0.11
KP14	0.23	0.27	0.29	0.30	0.21	0.17
KP15	0.44	0.46	0.46	0.41	0.39	0.27
KP16	0.19	0.21	0.18	0.18	0.19	0.05
KP17	0.26	0.27	0.24	0.25	0.25	0.09
KP18	0.16	0.28	0.18	0.16	0.14	0.03
KP19	0.28	0.33	0.30	0.24	0.28	0.14
KP20	0.30	0.28	0.23	0.27	0.25	0.14

Covariance Matrix

	KP1	KP2	KP3	KP4	KP5	KP6
KP1	0.80					
KP2	0.70	0.86				
KP3	0.58	0.72	0.92			
KP4	0.48	0.59	0.68	0.70		
KP5	0.62	0.69	0.61	0.60	0.86	
KP6	0.73	0.75	0.57	0.53	0.75	1.18
KP7	0.49	0.55	0.58	0.37	0.49	0.53
KP8	0.71	0.78	0.62	0.56	0.66	0.76
KP9	0.67	0.81	0.65	0.60	0.72	0.76
KP10	0.62	0.73	0.78	0.63	0.80	0.71
KP11	0.57	0.62	0.57	0.57	0.74	0.65
KP12	0.73	0.72	0.56	0.52	0.69	1.05
KP13	0.52	0.53	0.56	0.35	0.48	0.51
KP14	0.61	0.58	0.43	0.35	0.45	0.77
KP15	0.49	0.50	0.51	0.41	0.55	0.57
KP16	0.61	0.57	0.44	0.38	0.45	0.56
KP17	0.64	0.64	0.47	0.43	0.55	0.67
KP18	0.59	0.54	0.43	0.36	0.49	0.56
KP19	0.55	0.64	0.53	0.46	0.54	0.55
KP20	0.45	0.50	0.59	0.40	0.43	0.38

Covariance Matrix

	KP7	KP8	KP9	KP10	KP11	KP12
KP7	0.82					
KP8	0.53	0.98				
KP9	0.57	0.89	1.02			
KP10	0.60	0.79	0.94	1.16		
KP11	0.54	0.71	0.80	0.88	0.86	
KP12	0.57	0.81	0.84	0.81	0.74	1.13
KP13	0.67	0.44	0.47	0.53	0.48	0.50
KP14	0.39	0.60	0.58	0.51	0.45	0.77
KP15	0.56	0.50	0.54	0.64	0.54	0.56
KP16	0.37	0.64	0.60	0.52	0.47	0.58
KP17	0.39	0.75	0.70	0.62	0.54	0.68
KP18	0.43	0.57	0.56	0.50	0.47	0.55
KP19	0.47	0.60	0.64	0.57	0.52	0.54
KP20	0.45	0.44	0.47	0.57	0.42	0.39

Covariance Matrix

	KP13	KP14	KP15	KP16	KP17	KP18
KP13	0.77					
KP14	0.50	1.02				
KP15	0.64	0.66	0.88			
KP16	0.47	0.74	0.58	0.82		
KP17	0.43	0.78	0.65	0.79	0.90	
KP18	0.51	0.56	0.53	0.59	0.61	0.86
KP19	0.55	0.54	0.53	0.54	0.57	0.65
KP20	0.53	0.47	0.56	0.44	0.46	0.60

Covariance Matrix

	KP19	KP20
KP19	0.84	
KP20	0.68	0.91

Number of Iterations = 89

LISREL Estimates (Maximum Likelihood)

Measurement Equations

$$KK1 = 1.00*KK, \text{ Errorvar.} = 0.31, R^2 = 0.64$$

(0.041)
7.57

$$KK2 = 1.34*KK, \text{ Errorvar.} = 0.14, R^2 = 0.87$$

(0.11) (0.029)
11.70 5.05

$$KK3 = 1.10*KK, \text{ Errorvar.} = 0.15, R^2 = 0.82$$

(0.081) (0.021)
 13.55 7.23

LP1 = 0.39*KK + 1.00*LP, Errorvar.= 0.30 , R² = 0.61
 (0.069) (0.035)
 5.64 8.58

LP2 = 1.70*LP, Errorvar.= 0.030 , R² = 0.96
 (0.16) (0.014)
 10.66 2.08

LP3 = 1.49*LP, Errorvar.= 0.39 , R² = 0.61
 (0.17) (0.046)
 8.93 8.44

LP4 = 1.41*LP, Errorvar.= 0.39 , R² = 0.58
 (0.16) (0.046)
 8.77 8.49

LP5 = 1.73*LP, Errorvar.= 0.22 , R² = 0.78
 (0.17) (0.030)
 9.94 7.52

LP6 = 1.44*LP, Errorvar.= 0.38 , R² = 0.60
 (0.16) (0.045)
 8.87 8.46

LP7 = 0.23*KK + 0.92*LP, Errorvar.= 0.59 , R² = 0.35
 (0.081) (0.15) (0.067)
 2.82 6.09 8.80

LP8 = 1.26*LP, Errorvar.= 0.49 , R² = 0.47
 (0.16) (0.057)
 7.99 8.67

LP9 = 0.91*LP, Errorvar.= 0.50 , R² = 0.31
 (0.14) (0.054)
 6.67 9.21

KP1 = 1.00*KP, Errorvar.= 0.20 , R² = 0.75
 (0.024)
 8.30

KP2 = 1.09*KP, Errorvar.= 0.15 , R² = 0.83
 (0.065) (0.019)
 16.89 7.91

KP3 = 0.98*KP, Errorvar.= 0.35 , R² = 0.62
 (0.076) (0.041)
 12.81 8.58

KP4 = 0.85*KP, Errorvar.= 0.27 , R² = 0.62
 (0.067) (0.031)
 12.79 8.58

KP5 = 1.04*KP, Errorvar.= 0.21 , R² = 0.75
 (0.068) (0.026)

15.27	8.29
KP6 = 1.09*KP, Errorvar.= 0.46 , R ² = 0.61 (0.087) (0.053) 12.62 8.59	
KP7 = 0.81*KP, Errorvar.= 0.42 , R ² = 0.48 (0.077) (0.049) 10.53 8.72	
KP8 = 1.12*KP, Errorvar.= 0.22 , R ² = 0.78 (0.071) (0.026) 15.80 8.19	
KP9 = 1.18*KP, Errorvar.= 0.18 , R ² = 0.82 (0.070) (0.023) 16.79 7.94	
KP10 = 1.19*KP, Errorvar.= 0.31 , R ² = 0.74 (0.080) (0.037) 14.94 8.34	
KP11 = 1.04*KP, Errorvar.= 0.22 , R ² = 0.75 (0.068) (0.026) 15.22 8.30	
KP12 = 1.11*KP, Errorvar.= 0.39 , R ² = 0.66 (0.083) (0.045) 13.48 8.52	
KP13 = 0.80*KP, Errorvar.= 0.38 , R ² = 0.50 (0.074) (0.044) 10.82 8.71	
KP14 = 0.90*KP, Errorvar.= 0.53 , R ² = 0.48 (0.086) (0.061) 10.41 8.73	
KP15 = 0.88*KP, Errorvar.= 0.41 , R ² = 0.53 (0.078) (0.048) 11.30 8.68	
KP16 = 0.88*KP, Errorvar.= 0.35 , R ² = 0.57 (0.074) (0.041) 11.95 8.64	
KP17 = 0.99*KP, Errorvar.= 0.31 , R ² = 0.66 (0.074) (0.036) 13.43 8.52	
KP18 = 0.87*KP, Errorvar.= 0.40 , R ² = 0.53 (0.077) (0.046) 11.27 8.68	
KP19 = 0.92*KP, Errorvar.= 0.33 , R ² = 0.61 (0.073) (0.038) 12.61 8.59	

$$\begin{array}{l}
 \text{KP20} = 0.78 \cdot \text{KP}, \text{ Errorvar.} = 0.54, R^2 = 0.41 \\
 (0.084) \qquad (0.061) \\
 9.32 \qquad 8.77
 \end{array}$$

$$\begin{array}{l}
 \text{Error Covariance for KK2 and KK1} = -0.14 \\
 (0.025) \\
 -5.45
 \end{array}$$

$$\begin{array}{l}
 \text{Error Covariance for LP4 and LP3} = 0.35 \\
 (0.044) \\
 8.02
 \end{array}$$

$$\begin{array}{l}
 \text{Error Covariance for LP9 and LP7} = 0.21 \\
 (0.040) \\
 5.13
 \end{array}$$

$$\begin{array}{l}
 \text{Error Covariance for LP9 and LP8} = 0.26 \\
 (0.043) \\
 6.17
 \end{array}$$

$$\begin{array}{l}
 \text{Error Covariance for KP12 and KP6} = 0.32 \\
 (0.044) \\
 7.23
 \end{array}$$

$$\begin{array}{l}
 \text{Error Covariance for KP13 and KP7} = 0.28 \\
 (0.040) \\
 7.00
 \end{array}$$

$$\begin{array}{l}
 \text{Error Covariance for KP17 and KP16} = 0.27 \\
 (0.035) \\
 7.60
 \end{array}$$

$$\begin{array}{l}
 \text{Error Covariance for KP20 and KP19} = 0.25 \\
 (0.040) \\
 6.18
 \end{array}$$

Structural Equations

$$\begin{array}{l}
 \text{KK} = 0.90 \cdot \text{KP}, \text{ Errorvar.} = 0.073, R^2 = 0.87 \\
 (0.075) \qquad (0.016) \\
 11.95 \qquad 4.46
 \end{array}$$

$$\begin{array}{l}
 \text{LP} = 0.47 \cdot \text{KK} - 0.23 \cdot \text{KP}, \text{ Errorvar.} = 0.23, R^2 = 0.14 \\
 (0.19) \quad (0.17) \qquad (0.051) \\
 2.53 \quad -1.34 \qquad 4.59
 \end{array}$$

Reduced Form Equations

$$\begin{array}{l}
 \text{KK} = 0.90 \cdot \text{KP}, \text{ Errorvar.} = 0.073, R^2 = 0.87 \\
 (0.075) \\
 11.95
 \end{array}$$

$$\begin{array}{l}
 \text{LP} = 0.19 \cdot \text{KP}, \text{ Errorvar.} = 0.25, R^2 = 0.081 \\
 (0.056) \\
 3.39
 \end{array}$$

Variances of Independent Variables

KP

 0.60
 (0.09)
 6.86

Covariance Matrix of Latent Variables

	KK	LP	KP
KK	0.56		
LP	0.14	0.27	
KP	0.54	0.11	0.60

Goodness of Fit Statistics

Degrees of Freedom = 451
 Minimum Fit Function Chi-Square = 3150.07 (P = 0.0)
 Normal Theory Weighted Least Squares Chi-Square = 2853.14 (P = 0.0)
 Estimated Non-centrality Parameter (NCP) = 2402.14
 90 Percent Confidence Interval for NCP = (2237.16 ; 2574.53)

Minimum Fit Function Value = 19.81
 Population Discrepancy Function Value (F0) = 15.11
 90 Percent Confidence Interval for F0 = (14.07 ; 16.19)
 Root Mean Square Error of Approximation (RMSEA) = 0.18
 90 Percent Confidence Interval for RMSEA = (0.18 ; 0.19)
 P-Value for Test of Close Fit (RMSEA < 0.05) = 0.00

Expected Cross-Validation Index (ECVI) = 18.91
 90 Percent Confidence Interval for ECVI = (17.88 ; 20.00)
 ECVI for Saturated Model = 6.64
 ECVI for Independence Model = 137.54

Chi-Square for Independence Model with 496 Degrees of Freedom = 21804.20

Independence AIC = 21868.20
 Model AIC = 3007.14
 Saturated AIC = 1056.00
 Independence CAIC = 21998.60
 Model CAIC = 3320.93
 Saturated CAIC = 3207.69

Normed Fit Index (NFI) = 0.86
 Non-Normed Fit Index (NNFI) = 0.86
 Parsimony Normed Fit Index (PNFI) = 0.78
 Comparative Fit Index (CFI) = 0.87
 Incremental Fit Index (IFI) = 0.87
 Relative Fit Index (RFI) = 0.84

Critical N (CN) = 27.44

Root Mean Square Residual (RMR) = 0.086
 Standardized RMR = 0.096
 Goodness of Fit Index (GFI) = 0.47
 Adjusted Goodness of Fit Index (AGFI) = 0.38

Parsimony Goodness of Fit Index (PGFI) = 0.40

The Modification Indices Suggest to Add the

Path to	from	Decrease in Chi-Square	New Estimate
KK1	LP	9.9	-0.34
KK2	LP	9.9	-0.32
KK3	LP	20.7	0.32

The Modification Indices Suggest to Add an Error Covariance

Between	and	Decrease in Chi-Square	New Estimate
LP2	KK2	20.7	-0.06
LP3	KK2	8.5	0.03
LP7	KK3	18.7	0.10
LP7	LP6	10.4	0.11
LP8	LP7	37.3	0.27
KP1	KK1	23.8	0.10
KP2	KK3	19.3	-0.06
KP2	KP1	11.9	0.05
KP3	KK2	38.2	0.14
KP3	KK3	21.5	-0.09
KP3	KP2	19.7	0.09
KP4	KK1	10.6	-0.08
KP4	KP3	56.9	0.19
KP5	KK1	33.1	-0.13
KP5	KK3	35.5	0.09
KP5	KP4	14.4	0.08
KP6	KK1	12.7	0.07
KP6	KP2	10.7	0.05
KP6	KP5	21.8	0.08
KP7	LP2	9.6	0.04
KP7	LP7	10.6	-0.08
KP8	KK3	19.1	-0.07
KP8	KP2	10.2	0.05
KP8	KP5	9.2	-0.06
KP8	KP7	12.0	0.06
KP9	KP1	8.2	-0.05
KP9	KP2	11.0	0.05
KP9	KP6	19.4	-0.07
KP9	KP7	17.7	0.07
KP9	KP8	41.2	0.11
KP10	KK1	22.3	-0.12
KP10	KK2	38.3	0.13
KP10	LP2	16.8	-0.06
KP10	KP1	26.4	-0.11
KP10	KP2	13.7	-0.07
KP10	KP3	10.3	0.09
KP10	KP5	7.9	0.06
KP10	KP6	16.2	-0.08
KP10	KP9	30.0	0.11
KP11	KK1	52.1	-0.16
KP11	KK3	32.5	0.09
KP11	KP1	11.4	-0.06
KP11	KP2	19.8	-0.07
KP11	KP5	36.6	0.11
KP11	KP6	22.1	-0.08
KP11	KP7	8.1	0.05
KP11	KP9	17.9	0.07
KP11	KP10	52.1	0.16
KP12	KK1	12.0	-0.07
KP12	KP2	9.0	-0.04
KP12	KP5	13.8	-0.06

KP12	KP7	8.5	0.04
KP12	KP8	9.7	0.05
KP12	KP9	24.7	0.07
KP12	KP10	10.1	0.06
KP12	KP11	24.1	0.08
KP13	KK1	13.3	0.07
KP13	KK2	11.7	0.06
KP13	KP8	35.9	-0.10
KP13	KP9	46.5	-0.11
KP13	KP10	9.9	-0.06
KP13	KP12	8.3	-0.04
KP14	KK1	15.9	0.13
KP14	KP1	7.9	0.08
KP14	KP3	9.2	-0.11
KP14	KP4	15.8	-0.12
KP14	KP5	19.1	-0.12
KP14	KP7	12.5	-0.10
KP14	KP10	19.3	-0.15
KP14	KP11	18.5	-0.12
KP14	KP13	13.8	0.10
KP15	KK3	11.5	0.07
KP15	KP2	18.4	-0.09
KP15	KP8	20.8	-0.11
KP15	KP9	19.1	-0.10
KP15	KP13	36.0	0.14
KP15	KP14	26.0	0.19
KP16	KK1	24.3	0.08
KP16	LP3	70.0	0.06
KP16	LP4	68.4	-0.06
KP16	KP1	9.8	0.04
KP16	KP5	16.1	-0.05
KP16	KP7	8.6	-0.04
KP16	KP13	28.3	0.07
KP17	LP3	38.3	-0.04
KP17	LP4	40.8	0.04
KP17	KP3	13.3	-0.06
KP17	KP8	16.3	0.05
KP17	KP13	14.7	-0.04
KP18	KK1	38.8	0.18
KP18	LP1	19.0	0.12
KP18	KP1	11.2	0.08
KP18	KP3	8.2	-0.09
KP18	KP4	10.2	-0.09
KP18	KP9	8.7	-0.07
KP18	KP10	22.4	-0.14
KP18	KP11	10.8	-0.08
KP18	KP13	13.4	0.08
KP18	KP16	10.4	0.06
KP19	KP2	10.9	0.05
KP19	KP3	10.4	-0.07
KP19	KP10	23.7	-0.10
KP19	KP18	13.5	0.09
KP20	KK2	15.0	0.08
KP20	KP3	24.3	0.14
KP20	KP8	11.5	-0.08
KP20	KP9	14.6	-0.08
KP20	KP10	8.7	0.08
KP20	KP15	14.3	0.12

Time used: 0.343 Seconds