**Output CFA Lisrel**

DATE: 4/23/2024

TIME: 11:10

L I S R E L 8.80

BY

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The following lines were read from file  **G:\Documents\masarif\spss\23\_04\_24\CFA.spj:**

Sample Size = 250

Latent Variables Keputusan Implementasi Ketepatan

Relationships

KEP1 - KEP3 = Keputusan

IMP1 - IMP5 = Implementasi

KET1 - KET4 = Ketepatan

ErrRTF: Unknown Block Style !

Path Diagram

End of Problem

Sample Size = 250

**Covariance Matrix**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **KEP1** | **KEP2** | **KEP3** | **IMP1** | **IMP2** | **IMP3** |
| **KEP1** | 1.47 |  |  |  |  |  |
| **KEP2** | 1.07 | 1.43 |  |  |  |  |
| **KEP3** | 0.90 | 0.85 | 1.25 |  |  |  |
| **IMP1** | 0.16 | 0.26 | 0.12 | 1.87 |  |  |
| **IMP2** | 0.33 | 0.34 | 0.26 | 1.01 | 1.18 |  |
| **IMP3** | 0.21 | 0.24 | 0.15 | 0.90 | 0.70 | 0.89 |
| **IMP4** | 0.36 | 0.41 | 0.22 | 1.39 | 1.00 | 0.80 |
| **IMP5** | 0.38 | 0.34 | 0.18 | 1.11 | 0.81 | 0.63 |
| **KET1** | 0.11 | 0.31 | 0.19 | 0.27 | 0.29 | 0.21 |
| **KET2** | 0.33 | 0.41 | 0.29 | 0.14 | 0.29 | 0.23 |
| **KET3** | 0.14 | 0.29 | 0.24 | 0.24 | 0.19 | 0.16 |
| **KET4** | 0.25 | 0.41 | 0.22 | 0.37 | 0.29 | 0.32 |

**Covariance Matrix**  (continued)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **IMP4** | **IMP5** | **KET1** | **KET2** | **KET3** | **KET4** |
| **IMP4** | 1.61 |  |  |  |  |  |
| **IMP5** | 0.96 | 1.15 |  |  |  |  |
| **KET1** | 0.30 | 0.18 | 1.42 |  |  |  |
| **KET2** | 0.29 | 0.19 | 0.92 | 1.25 |  |  |
| **KET3** | 0.19 | 0.21 | 0.92 | 0.70 | 1.10 |  |
| **KET4** | 0.43 | 0.26 | 1.04 | 0.81 | 0.71 | 1.36 |

Number of Iterations = 7

**LISREL Estimates (Maximum Likelihood)**

Measurement Equations

KEP1 = 1.05\*Keputusa, Errorvar.= 0.37 , R² = 0.75

(0.066) (0.064)

15.84 5.78

KEP2 = 1.02\*Keputusa, Errorvar.= 0.39 , R² = 0.73

(0.066) (0.063)

15.52 6.26

KEP3 = 0.84\*Keputusa, Errorvar.= 0.54 , R² = 0.57

(0.064) (0.060)

13.26 8.91

IMP1 = 1.21\*Implemen, Errorvar.= 0.40 , R² = 0.79

(0.069) (0.051)

17.52 7.89

IMP2 = 0.89\*Implemen, Errorvar.= 0.39 , R² = 0.67

(0.058) (0.042)

15.39 9.39

IMP3 = 0.74\*Implemen, Errorvar.= 0.34 , R² = 0.61

(0.051) (0.035)

14.47 9.76

IMP4 = 1.12\*Implemen, Errorvar.= 0.36 , R² = 0.77

(0.064) (0.045)

17.32 8.10

IMP5 = 0.89\*Implemen, Errorvar.= 0.36 , R² = 0.69

(0.057) (0.039)

15.72 9.23

KET1 = 1.11\*Ketepata, Errorvar.= 0.20 , R² = 0.86

(0.060) (0.043)

18.51 4.56

KET2 = 0.85\*Ketepata, Errorvar.= 0.53 , R² = 0.58

(0.062) (0.055)

13.69 9.62

KET3 = 0.81\*Ketepata, Errorvar.= 0.43 , R² = 0.60

(0.057) (0.046)

14.16 9.40

KET4 = 0.94\*Ketepata, Errorvar.= 0.48 , R² = 0.65

(0.063) (0.053)

14.90 8.97

**Correlation Matrix of Independent Variables**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Keputusa** | **Implemen** | **Ketepata** |
| **Keputusa** | 1.00 |  |  |
| **Implemen** | 0.28 | 1.00 |  |
|  | (0.07) |  |  |
|  | 4.31 |  |  |
| **Ketepata** | 0.25 | 0.26 | 1.00 |
|  | (0.07) | (0.06) |  |
|  | 3.75 | 4.07 |  |

**Goodness of Fit Statistics**

Degrees of Freedom = 51

Minimum Fit Function Chi-Square = 143.98 (P = 0.00)

Normal Theory Weighted Least Squares Chi-Square = 141.40 (P = 0.00)

Estimated Non-centrality Parameter (NCP) = 90.40

90 Percent Confidence Interval for NCP = (58.75 ; 129.72)

Minimum Fit Function Value = 0.58

Population Discrepancy Function Value (F0) = 0.36

90 Percent Confidence Interval for F0 = (0.24 ; 0.52)

Root Mean Square Error of Approximation (RMSEA) = 0.084

90 Percent Confidence Interval for RMSEA = (0.068 ; 0.10)

P-Value for Test of Close Fit (RMSEA < 0.05) = 0.00046

Expected Cross-Validation Index (ECVI) = 0.78

90 Percent Confidence Interval for ECVI = (0.66 ; 0.94)

ECVI for Saturated Model = 0.63

ECVI for Independence Model = 11.12

Chi-Square for Independence Model with 66 Degrees of Freedom = 2745.09

Independence AIC = 2769.09

Model AIC = 195.40

Saturated AIC = 156.00

Independence CAIC = 2823.35

Model CAIC = 317.48

Saturated CAIC = 508.67

Normed Fit Index (NFI) = 0.95

Non-Normed Fit Index (NNFI) = 0.96

Parsimony Normed Fit Index (PNFI) = 0.73

Comparative Fit Index (CFI) = 0.97

Incremental Fit Index (IFI) = 0.97

Relative Fit Index (RFI) = 0.93

Critical N (CN) = 134.84

Root Mean Square Residual (RMR) = 0.070

Standardized RMR = 0.051

Goodness of Fit Index (GFI) = 0.91

Adjusted Goodness of Fit Index (AGFI) = 0.87

Parsimony Goodness of Fit Index (PGFI) = 0.60

**The Modification Indices Suggest to Add the**

|  |  |  |  |
| --- | --- | --- | --- |
| **Path to** | **from** | **Decrease in Chi-Square** | **New Estimate** |
| **KEP1** | **Ketepata** | 8.9 | -0.17 | intbl |
| **KEP2** | **Ketepata** | 8.3 | 0.16 | intbl |
| **IMP1** | **Keputusa** | 19.2 | -0.23 | intbl |
| **KET1** | **Keputusa** | 14.0 | -0.18 | intbl |
| **KET2** | **Keputusa** | 9.7 | 0.17 | intbl |

**The Modification Indices Suggest to Add an Error Covariance**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Between** | | **and** | **Decrease in Chi-Square** | **New Estimate** |
| **IMP1** | | **KEP1** | 8.7 | -0.11 | intbl |
| **IMP2** | | **IMP1** | 15.5 | -0.15 | intbl |
| **IMP5** | | **KEP1** | 10.6 | 0.10 | intbl |
| **KET2** | | **IMP1** | 18.9 | -0.16 | intbl |
|  |

**Standardized Solution**

**LAMBDA-X**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Keputusa** | **Implemen** | **Ketepata** |
| **KEP1** | 1.05 | - - | - - |
| **KEP2** | 1.02 | - - | - - |
| **KEP3** | 0.84 | - - | - - |
| **IMP1** | - - | 1.21 | - - |
| **IMP2** | - - | 0.89 | - - |
| **IMP3** | - - | 0.74 | - - |
| **IMP4** | - - | 1.12 | - - |
| **IMP5** | - - | 0.89 | - - |
| **KET1** | - - | - - | 1.11 |
| **KET2** | - - | - - | 0.85 |
| **KET3** | - - | - - | 0.81 |
| **KET4** | - - | - - | 0.94 |

**PHI**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Keputusa** | **Implemen** | **Ketepata** |
| **Keputusa** | 1.00 |  |  |
| **Implemen** | 0.28 | 1.00 |  |
| **Ketepata** | 0.25 | 0.26 | 1.00 |

**Completely Standardized Solution**

**LAMBDA-X**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Keputusa** | **Implemen** | **Ketepata** |
| **KEP1** | 0.86 | - - | - - |
| **KEP2** | 0.85 | - - | - - |
| **KEP3** | 0.76 | - - | - - |
| **IMP1** | - - | 0.89 | - - |
| **IMP2** | - - | 0.82 | - - |
| **IMP3** | - - | 0.78 | - - |
| **IMP4** | - - | 0.88 | - - |
| **IMP5** | - - | 0.83 | - - |
| **KET1** | - - | - - | 0.93 |
| **KET2** | - - | - - | 0.76 |
| **KET3** | - - | - - | 0.78 |
| **KET4** | - - | - - | 0.81 |

**PHI**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Keputusa** | **Implemen** | **Ketepata** |
| **Keputusa** | 1.00 |  |  |
| **Implemen** | 0.28 | 1.00 |  |
| **Ketepata** | 0.25 | 0.26 | 1.00 |

**THETA-DELTA**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **KEP1** | **KEP2** | **KEP3** | **IMP1** | **IMP2** | **IMP3** |
| 0.25 | 0.27 | 0.43 | 0.21 | 0.33 | 0.39 |

**THETA-DELTA**  (continued)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **IMP4** | **IMP5** | **KET1** | **KET2** | **KET3** | **KET4** |
| 0.23 | 0.31 | 0.14 | 0.42 | 0.40 | 0.35 |

Time used: 0.000 Seconds



