MTMM Class Assignment

Program the steps of MTMM and include the fit indices, loadings, and an interpretation of the results from your analysis.

Traits:

* Meaning:
  + MLQ 1, 2, 5, 10
  + SONG 1, 9
  + PIL 4, 17
* Purpose:
  + MLQ 3, 4, 6, 8, 9
  + SONG 2, 8
  + PIL 3, 20

Methods:

* MLQ
* PIL
* SONG

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Model | X2 (df) | RMSEA | SRMR | CFI |
| Model 1  Correlated traits and methods |  |  |  |  |
| Model 2  No traits, correlated methods |  |  |  |  |
| Model 3  Perfectly correlated traits, correlated methods |  |  |  |  |
| Model 4  Correlated traits, uncorrelated methods |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Model | Change X2 | Change df | Critical X2 | Change CFI | Significant change? |
| Convergent Validity Traits  Model 1 – 2 |  |  |  |  |  |
| Discriminant Validity Traits  Model 1 – 3 |  |  |  |  |  |
| Discriminant Validity Methods  Model 1 – 4 |  |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Meaning | Purpose | MLQ | PIL | SONG |
| MLQ 1 |  | X |  | X | X |
| MLQ 2 |  | X |  | X | X |
| MLQ 5 |  | X |  | X | X |
| MLQ 10 |  | X |  | X | X |
| PIL 4 |  | X | X |  | X |
| PIL 17 |  | X | X |  | X |
| SONG 1 |  | X | X | X |  |
| SONG 9 |  | X | X | X |  |
| MLQ 3 | X |  |  | X | X |
| MLQ 4 | X |  |  | X | X |
| MLQ 6 | X |  |  | X | X |
| MLQ 8 | X |  |  | X | X |
| MLQ 9 | X |  |  | X | X |
| PIL 3 | X |  | X |  | X |
| PIL 20 | X |  | X |  | X |
| SONG 2 | X |  | X | X |  |
| SONG 8 | X |  | X | X |  |

Traits correlations

|  |  |
| --- | --- |
|  | Purpose |
| Meaning |  |

Methods correlations

|  |  |  |
| --- | --- | --- |
|  | MLQ | SONG |
| PIL |  |  |
| SONG |  | X |

Interpret your results – explaining convergent and discriminant validity in context of the models and parameter estimates.