MTMM Assignment

Traits:

* Happy Mood
* Sad Mood

Methods

* Adjective checklist: ACL
* Agree-disagree format: AD
* Self Descriptive format: DESC
* Likert scale: LKRT

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 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 5  Correlated uniqueness |  |  |  |  |

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

|  |  |  |  |
| --- | --- | --- | --- |
| Trait | Happy | Sad | Method |
|  |  |  | ACL |
| Happy |  |  |  |
| Sad |  |  |  |
|  |  |  | AD |
| Happy |  |  |  |
| Sad |  |  |  |
|  |  |  | DESC |
| Happy |  |  |  |
| Sad |  |  |  |
|  |  |  | LKRT |
| Happy |  |  |  |
| Sad |  |  |  |

Traits correlations

|  |  |  |
| --- | --- | --- |
|  | Happy | Sad |
| Happy |  |  |
| Sad |  |  |

Methods correlations

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | ACL | AD | DESC | LKRT |
| ACL |  |  |  |  |
| AD |  |  |  |  |
| DESC |  |  |  |  |
| LKRT |  |  |  |  |

Traits:

* P: Paranoid
* S: Schizotypal
* Sz: Schizoid

Methods:

* I: Inventory
* C: Clinical interview
* O: Observer rating

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Model | X2 (df) | RMSEA | SRMR | CFI |
| Model 1  Correlated traits and methods |  |  |  |  |
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|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Model | Change X2 | Change df | Critical X2 | Change CFI | Significant change? |
| Convergent Validity  Model 1 – 2 |  |  |  |  |  |
| Discriminant Validity Traits  Model 1 – 3 |  |  |  |  |  |
| Discriminant Validity Methods  Model 1 – 4 |  |  |  |  |  |

What do your change statistics indicate about the convergent and discriminant validity of this scale?

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Trait | Paranoid | Schizotypal | Schizoid | Method |
|  |  |  |  | Inventory |
| Paranoid |  |  |  |  |
| Schizotypal |  |  |  |  |
| Schizoid |  |  |  |  |
|  |  |  |  | Clinical interview |
| Paranoid |  |  |  |  |
| Schizotypal |  |  |  |  |
| Schizoid |  |  |  |  |
|  |  |  |  | Observer rating |
| Paranoid |  |  |  |  |
| Schizotypal |  |  |  |  |
| Schizoid |  |  |  |  |

Are your trait loadings higher than your method loadings? What does that indicate?

Trait correlations:

|  |  |  |  |
| --- | --- | --- | --- |
|  | Paranoid | Schizotypal | Schizoid |
| Paranoid |  |  |  |
| Schizotypal |  |  |  |
| Schizoid |  |  |  |

What do your trait correlations indicate about discriminant validity?

Methods correlations:

|  |  |  |  |
| --- | --- | --- | --- |
|  | Inventory | Clinical Interview | Observer Rating |
| Inventory |  |  |  |
| Clinical Interview |  |  |  |
| Observer Rating |  |  |  |

What do your method correlations indicate about discriminant validity?