MGCFA Class Assignment

Program a multigroup model and calculate latent means.

DASS – Depression, Anxiety, and Stress Scale

* Depression: Questions 3, 5, 10, 13, 16, 17, 21
* Anxiety: Questions 2, 4, 7, 9, 15, 19, 20
* Stress: 1, 6, 8, 11, 12, 14, 18

Test gender as the grouping variable:

* 1 = female
* 2 = male

Add partial invariance to your table when necessary.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Model | X2 (df) | RMSEA | SRMR | CFI | Change CFI | Different? |
| All Groups |  |  |  |  | n/a |  |
| Female |  |  |  |  | n/a |  |
| Male |  |  |  |  | n/a |  |
| Configural  Invariance |  |  |  |  | n/a |  |
| Metric Invariance |  |  |  |  |  |  |
| Scalar Invariance |  |  |  |  |  |  |
| Strict Invariance |  |  |  |  |  |  |

What pieces would you freely estimate to get to partial invariance?

Interpret your findings – are the groups invariant? Did you see a break down between groups anywhere? What does that break down imply?

Include the latent means and standard deviations for your groups.

Use a t-test to determine if they are significantly different. Include Cohen’s d for your test.