

Class demo: SEM in Stata

Objective: Learn using SEM Builder in Stata

Data: Taiwan Election and Democratization Study (TEDS) 2012 data

(use "<https://github.com/kho777/stata/blob/master/SEM/TEDS2012SEM.dta?raw=true>")

1. Open TEDS 2012 data in Stata
2. Examine the variables (poltalk, polnetsize, heteronet and pstrength) using sum, tab and corr.
3. Run EFA using factor
4. SEM Builder:
 - a. Statistics → SEM (Structural equation modeling) → Model Building and Estimation
 - b. Build a CFA using the four variables
 - i. One latent construct using ellipse, named it ENDOW
 - ii. Four indicators using boxes
 - iii. Connect the ellipse and boxes using path arrows (make sure the directions are correct)
 - iv. Double click the boxes and specify variables
 - c. Run estimation
 - d. Check model fit (Estimation → Goodness of fit)
5. Can you improve the model fit by reviewing modification indices?
6. Add another indicator. Make sure you have a theory behind that new model.

