

Estimating coefficient omega in Mplus for a 1-factor model with continuous items:

ANALYSIS:

ESTIMATOR = ML;

BOOTSTRAP = 2000;

MODEL:

f BY y1-y5* (load1-load5);

f@1;

y1-y5 (resv1-resv5);

MODEL CONSTRAINT:

NEW(omega);

omega =

$(\text{load1} + \text{load2} + \text{load3} + \text{load4} + \text{load5})^2 / ((\text{load1} + \text{load2} + \text{load3} + \text{load4} + \text{load5})^2 + \text{resv1} + \text{resv2} + \text{resv3} + \text{resv4} + \text{resv5});$

OUTPUT:

CINTERVAL(BCBOOTSTRAP);