

Latent Measurement Model

Test: Latent Measurement Model

Design: Reliability and validity of two prespecified CFA constructs before structural paths.

Variables: G1, G2, G3, famrel, freetime, goout

Null hypothesis: The measurement model has no reliable loadings or adequate covariance fit.

Formula: $x = \text{Lambda } \xi + \delta$; $y = \text{Lambda } \eta + \epsilon$; $\Sigma = \text{Lambda } \Phi \text{Lambda}' + \Theta$.

Source rows: 649

Calculated metrics:

cfi: 0.997398206239512

rmsea: 0.0333448246929569

srmr: 0.0356631632047897

minimum_cr: 0.4647308232606

minimum_ave: 0.268100608744398

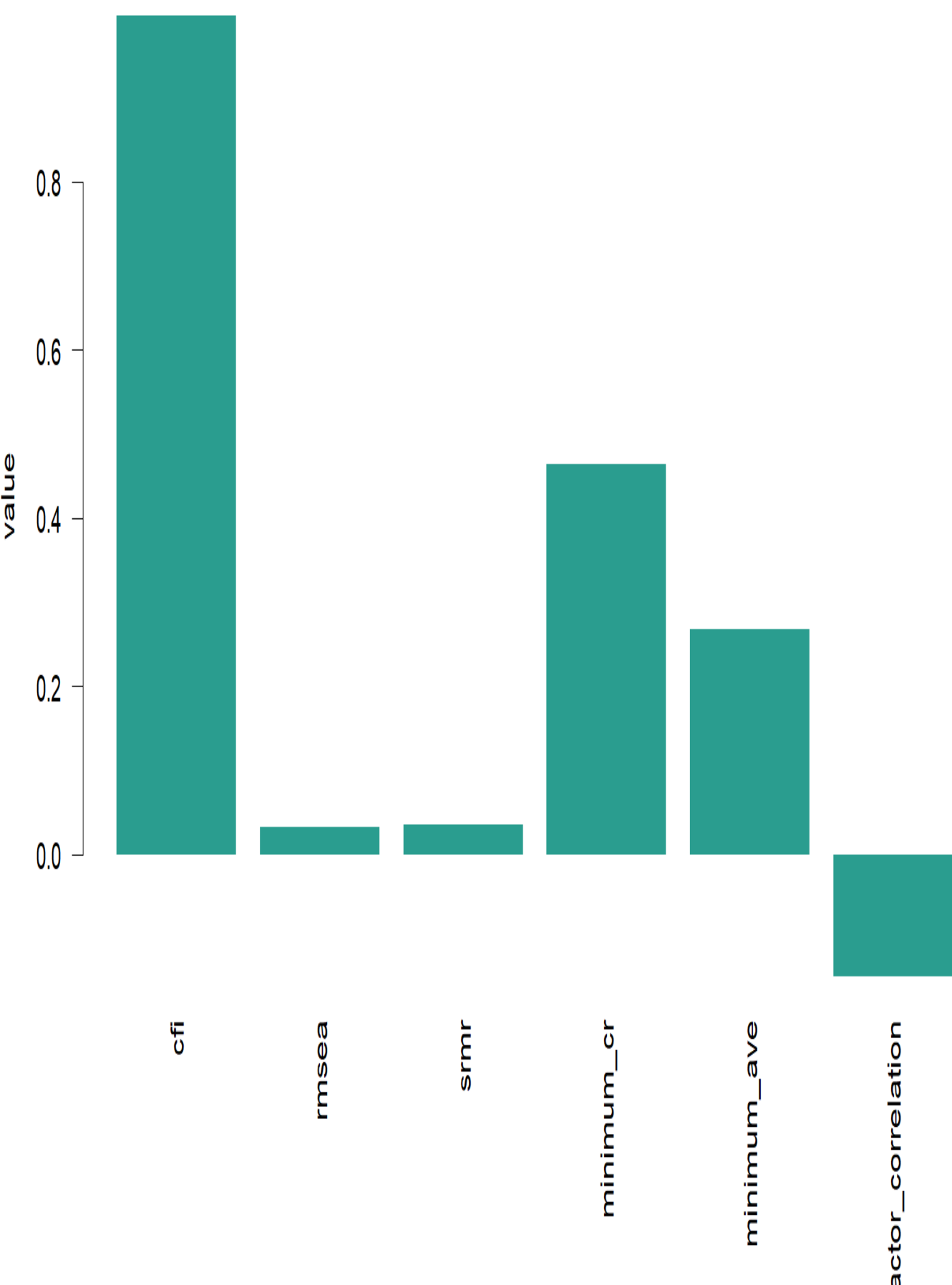
factor_correlation: -0.144694034519499

Interpretation:

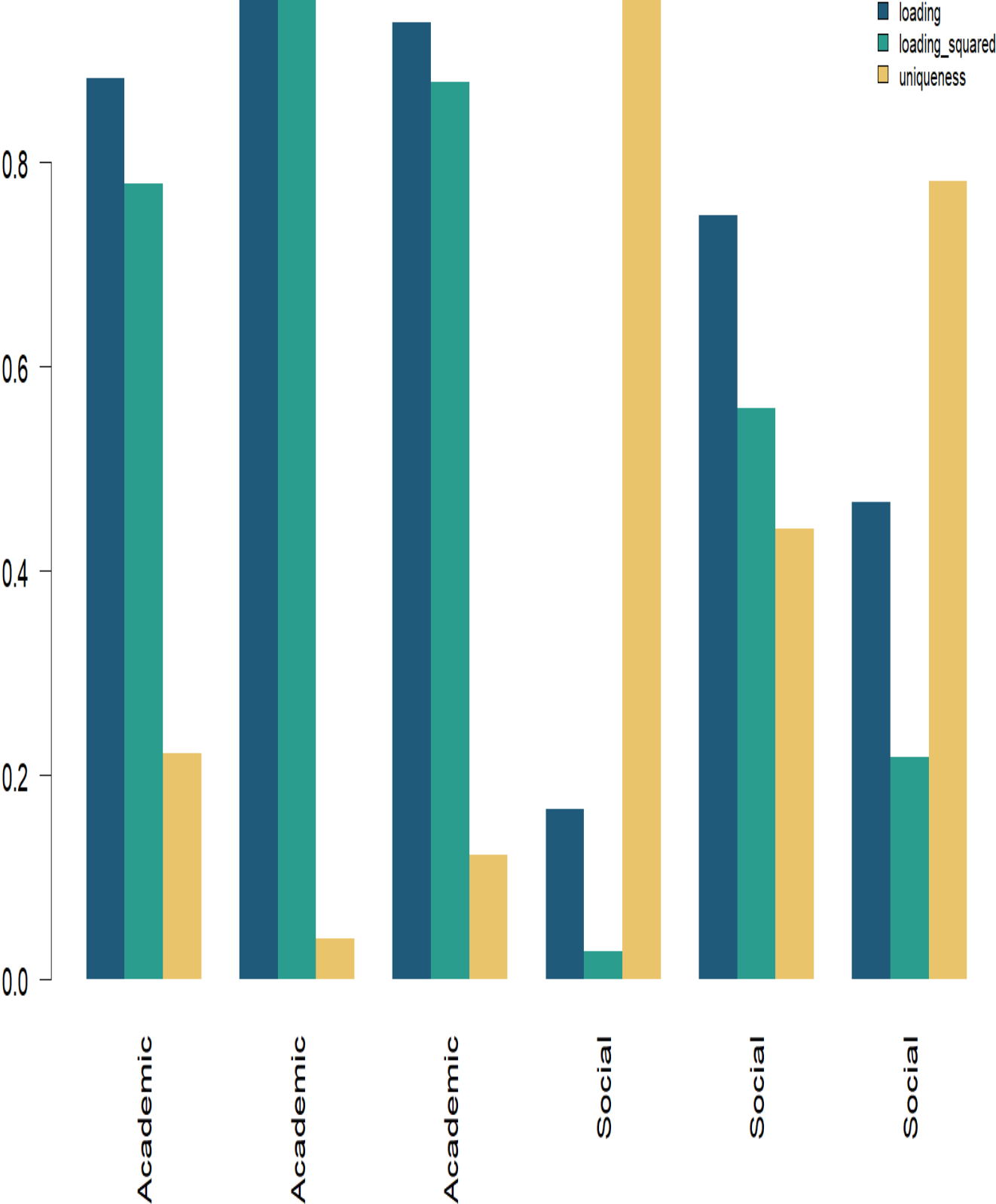
The measurement model precedes structural paths.

Minimum CR 0.4647308232606

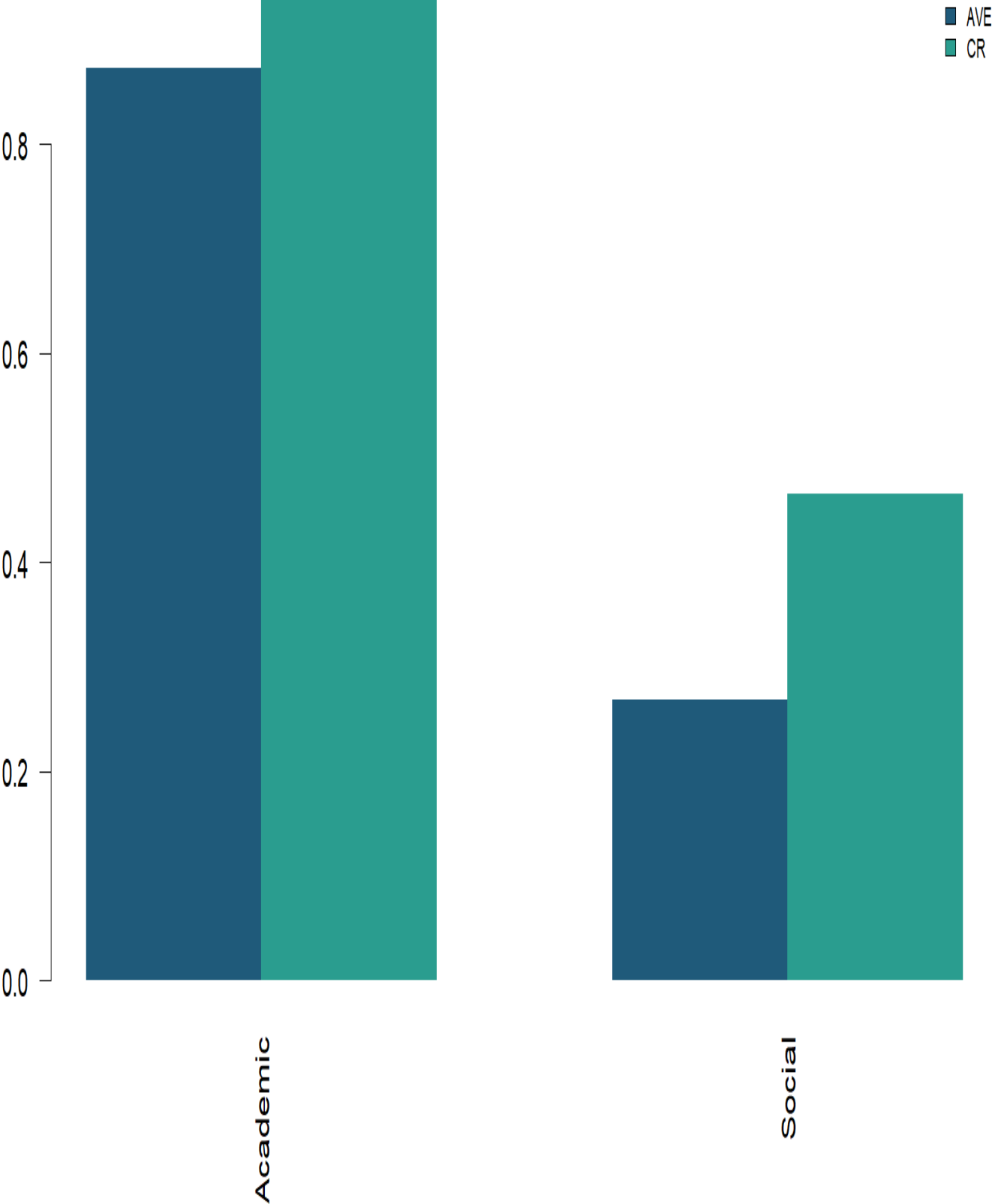
Latent Measurement Model - primary metrics



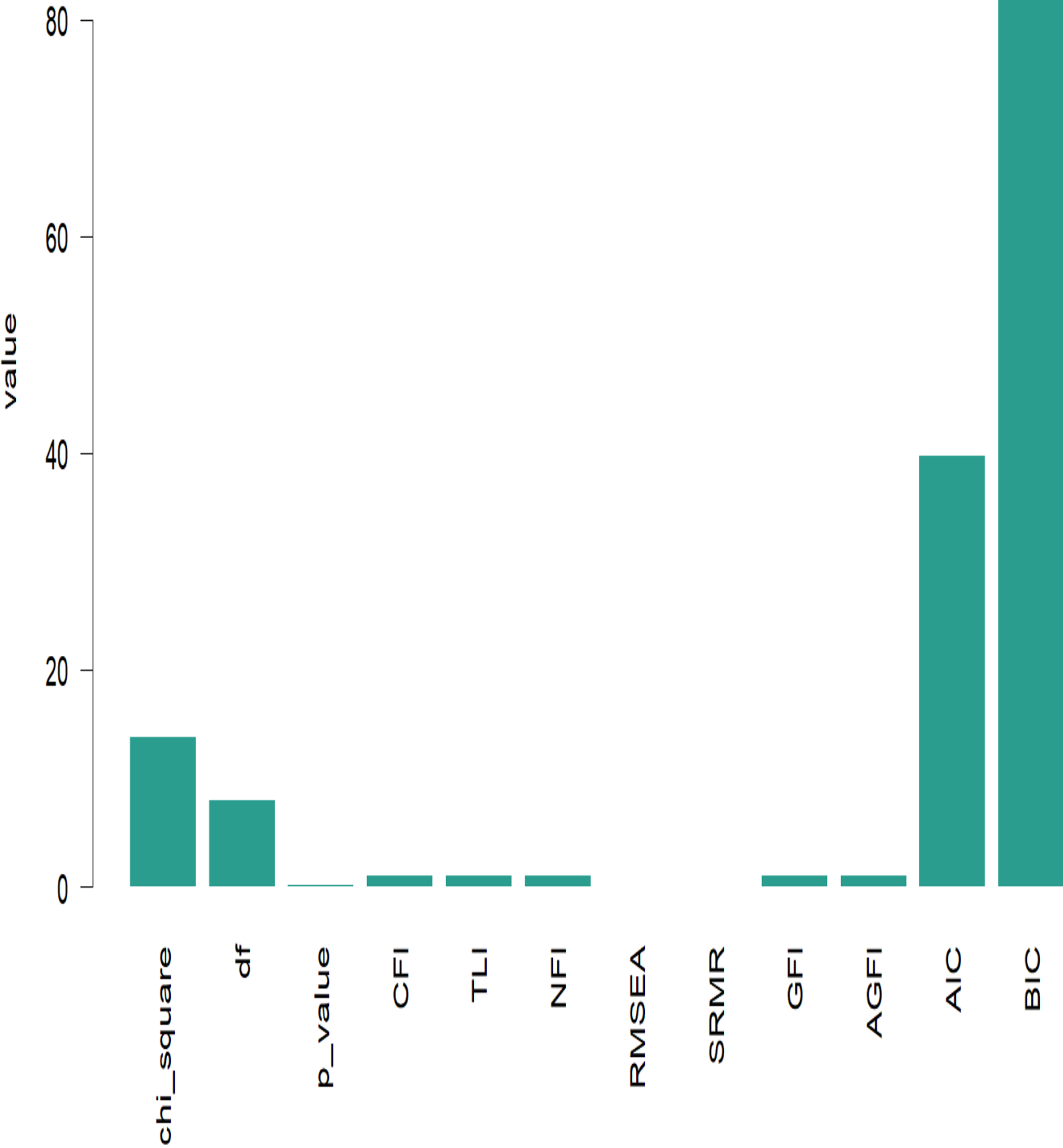
Latent Measurement Model - measurement loadings



Latent Measurement Model - construct quality



Latent Measurement Model - measurement fit



Latent Measurement Model verified results

