One-factor CFA Example in Amos

C:\Jason\SPSSWIN\semclass\se.amw

Analysis Summary

Date and Time

Date: Wednesday, February 06, 2008
Time: 2:19:16 PM

Title

se: Wednesday, February 06, 2008 02:19 PM

Groups

Group number 1 (Group number 1)

Notes for Group (Group number 1)

The model is recursive.
Sample size = 118

Variable counts (Group number 1)

Number of variables in your model:	13
Number of observed variables:	6
Number of unobserved variables:	7
Number of exogenous variables:	7
Number of endogenous variables:	6

Models

Default model (Default model)

Notes for Model (Default model)

Computation of degrees of freedom (Default model)

Number of distinct sample moments:	21
Number of distinct parameters to be estimated:	12
Degrees of freedom (21 - 12):	9

Result (Default model)

Minimum was achieved
Chi-square = 19.289
Degrees of freedom = 9
Probability level = .023

Maximum Likelihood Estimates

Regression Weights: (Group number 1 - Default model)

			Estimate	S.E.	C.R.	P	Label
rfelpos	<---	self-esteem	1.000				
rnotprdr	<---	self-esteem	2.642	.873	3.027	.002	
ramable	<---	self-esteem	.554	.446	1.242	.214	
ramfailr	<---	self-esteem	2.029	.680	2.983	.003	
rnumqal	<---	self-esteem	1.334	.468	2.851	.004	
rnotworr	<---	self-esteem	2.094	.764	2.739	.006	

Standardized Regression Weights: (Group number 1 - Default model)

			Estimate
rfelpos	<---	self-esteem	.312
rnotprdr	<---	self-esteem	.872
ramable	<---	self-esteem	.136
ramfailr	<---	self-esteem	.647
rnumqal	<---	self-esteem	.539
rnotworr	<---	self-esteem	.475

Variances: (Group number 1 - Default model)

	Estimate	S.E.	C.R.	P	Label
self-esteem	.053	.034	1.566	.117	
e1	.488	.065	7.464	***	
e2	.116	.051	2.259	.024	
e3	.860	.113	7.618	***	
e4	.300	.050	6.003	***	
e5	.228	.033	6.836	***	
e6	.793	.112	7.104	***	

Model Fit Summary

CMIN

Model	NPAR	CMIN	DF	P	CMIN/DF
Default model	12	19.289	9	.023	2.143
Saturated model	21	.000	0		
Independence model	6	130.153	15	.000	8.677

RMR, GFI

Model	RMR	GFI	AGFI	PGFI
Default model	.039	.948	.878	.406
Saturated model	.000	1.000		
Independence model	.138	.704	.586	.503

Baseline Comparisons

Model	NFI Delta1	RFI rho1	IFI Delta2	TLI rho2	CFI
Default model	.852	.753	.915	.851	.911
Saturated model	1.000		1.000		1.000
Independence model	.000	.000	.000	.000	.000

Parsimony-Adjusted Measures

Model	PRATIO	PNFI	PCFI
Default model	.600	.511	.546
Saturated model	.000	.000	.000
Independence model	1.000	.000	.000

NCP

Model	NCP	LO 90	HI 90
Default model	10.289	1.306	26.978
Saturated model	.000	.000	.000
Independence model	115.153	82.384	155.396

FMIN

Model	FMIN	F0	LO 90	HI 90
Default model	.165	.088	.011	.231
Saturated model	.000	.000	.000	.000
Independence model	1.112	.984	.704	1.328

RMSEA

Model	RMSEA	LO 90	HI 90	PCLOSE
Default model	.099	.035	.160	.089
Independence model	.256	.217	.298	.000

AIC

Model	AIC	BCC	BIC	CAIC
Default model	43.289	44.816	76.537	88.537
Saturated model	42.000	44.673	100.184	121.184
Independence model	142.153	142.917	158.777	164.777

ECVI

Model	ECVI	LO 90	HI 90	MECVI
Default model	.370	.293	.513	.383
Saturated model	.359	.359	.359	.382
Independence model	1.215	.935	1.559	1.222

HOELTER

Model	HOELTER .05	HOELTER .01
Default model	103	132
Independence model	23	28