

Errors & Warnings

In the following all different warning and error messages raised during the studies are listed (see Table 1) and shown how often they occurred under various fitting conditions (see Table 2).

Table 1: List of Unique Warnings and Errors

ID	Message
1	lavaan WARNING: the optimizer warns that a solution has NOT been found!
2	lavaan WARNING: some estimated ov variances are negative
3	lavaan WARNING: the optimizer (NLMINB) claimed the model converged, but not all elements of the gradient are (near) zero; the optimizer may not have found a local solution use <code>check.gradient = FALSE</code> to skip this check.
4	lavaan WARNING: covariance matrix of latent variables is not positive definite; use <code>lavInspect(fit, "cov.lv")</code> to investigate.
5	lavaan WARNING: some estimated lv variances are negative

Note. This table lists all unique warnings and errors encountered during the simulation studies.

Table 2: Summary of Warnings and Errors by Condition with ID for All Studies

Study	Model Type	N	Reliability	Method	MessageType	Count	Message ID
Study 1	1.3	400	0.3	SEM	Warning	10	1
Study 1	1.3	400	0.5	SEM	Warning	10	2
Study 1	1.3	6400	0.3	SEM	Warning	10	1
Study 1	1.3	6400	0.5	SEM	Warning	10	2
Study 1	1.3	100	0.3	SEM	Warning	9	1
Study 1	1.3	100	0.5	SEM	Warning	8	2
Study 1	1.3	100	0.7	SEM	Warning	7	2

Table 2: Summary of Warnings and Errors by Condition with ID for All Studies
(continued)

Study	Model Type	N	Reliability	Method	MessageType	Count	Message ID
Study 1	1.2	100	0.3	SEM	Warning	4	2
Study 1	1.4	100	0.3	SEM	Warning	4	2
Study 1	1.2	100	0.5	SEM	Warning	3	2
Study 1	1.1	100	0.3	SEM	Warning	2	2
Study 1	1.2	100	0.3	SEM	Warning	2	3
Study 1	1.3	100	0.5	SEM	Warning	2	1
Study 1	1.3	400	0.7	SEM	Warning	2	2
Study 1	1.4	100	0.3	SEM	Warning	2	1
Study 1	1.1	100	0.3	SEM	Warning	1	1
Study 1	1.2	100	0.3	SEM	Warning	1	1
Study 1	1.2	100	0.7	SEM	Warning	1	2
Study 1	1.2	400	0.7	SEM	Warning	1	2
Study 1	1.3	100	0.3	SEM	Warning	1	3
Study 2	2.2_exo	100	0.3	SEM	Warning	8	2
Study 2	2.2_both	100	0.3	SEM	Warning	6	2
Study 2	2.1	100	0.3	SEM	Warning	4	2
Study 2	2.2_endo	100	0.3	SEM	Warning	4	2
Study 2	2.2_both	100	0.7	SEM	Warning	4	2
Study 2	2.2_exo	100	0.5	SEM	Warning	3	2
Study 2	2.2_endo	100	0.7	SEM	Warning	3	2
Study 2	2.2_both	100	0.3	SEM	Warning	3	1
Study 2	2.1	100	0.3	SEM	Warning	2	1
Study 2	2.2_exo	100	0.7	SEM	Warning	2	2
Study 2	2.2_both	100	0.5	SEM	Warning	1	2
Study 3	3.1	50	0.3	SEM	Warning	1	4
Study 3	3.1_negative	50	0.3	gSAM	Warning	1	5

Note. This table summarizes the count of warnings and errors for each condition in all three simulation studies with the respective ID number corresponding to table 1.