

Structural Equation Modelling

Modelo de 3 fatores agregados por sintomas orais; dentários e de função

Models Info

Estimation Method	DWLS
Optimization Method	NLMINB
Number of observations	101
Free parameters	86
Standard errors	Robust
Scaled test	Mean adjusted scaled and shifted
Converged	TRUE
Iterations	44
Model	Endogenous1=~s6_freq+s7_freq+s8_freq+s9_freq Endogenous2=~s1_freq+s2_freq+s3_freq+s4_freq+s5_freq+s10_freq+s11_freq+s12_freq+s18_freq+s19_freq Endogenous3=~s13_freq+s14_freq+s15_freq

Nota. Variable (s6_freq,s7_freq,s8_freq,s9_freq,s1_freq,s2_freq,s3_freq,s4_freq,s5_freq,s10_freq,s11_freq,s12_freq,s18_freq,s19_freq,s13_freq,s14_freq,s15_freq) has been coerced to ordered type.

Overall Tests

Model tests				
Label	X ²	df	p	
User Model	106	116	.744	
Baseline Model	5875	136	<.001	
Scaled User	158	116	.006	
Scaled Baseline	2124	136	<.001	

Fit indices					
Type	SRMR	RMSEA	95% Confidence Intervals		RMSEA p
			Lower	Upper	
Classical	0.081	0.000	0.000	0.038	.989
Robust	0.067				
Scaled	0.067	0.060	0.033	0.082	.244

User model versus baseline model			
	Model	Scaled	Robust
Comparative Fit Index (CFI)	1.000	0.979	
Tucker-Lewis Index (TLI)	1.002	0.976	
Bentler-Bonett Non-normed Fit Index (NNFI)	1.002	0.976	
Relative Noncentrality Index (RNI)	1.002	0.979	
Bentler-Bonett Normed Fit Index (NFI)	0.982	0.926	
Bollen's Relative Fit Index (RFI)	0.979	0.913	
Bollen's Incremental Fit Index (IFI)	1.002	0.979	
Parsimony Normed Fit Index (PNFI)	0.838	0.790	

Nota. Robust indices cannot be computed for this model/estimator combination. The scaled stistics can be used instead.

Additional fit indices	
	Model
Hoelter Critical N (CN), $\alpha=0.05$	135.499
Hoelter Critical N (CN), $\alpha=0.01$	147.049
Goodness of Fit Index (GFI)	0.987
Adjusted Goodness of Fit Index (AGFI)	0.977
Parsimony Goodness of Fit Index (PGFI)	0.567
McDonald Fit Index (MFI)	1.053
Expected Cross-Validation Index (ECVI)	.
Loglikelihood user model (H0)	.
Loglikelihood unrestricted model (H1)	.
Akaike (AIC)	.
Bayesian (BIC)	.
Sample-size adjusted Bayesian (SABIC)	.

Estimates

Measurement model										
Latent	Observed	Estimate	SE	95% Confidence Intervals		β	β 95% Confidence Intervals		z	p
				Lower	Upper		Lower	Upper		
Endogenous1	s6_freq	1.000	0.0000	1.000	1.000	0.570	0.415	0.725		
	s7_freq	1.418	0.1821	1.061	1.775	0.809	0.703	0.915	7.79	<.001
	s8_freq	1.510	0.2145	1.089	1.930	0.861	0.772	0.950	7.04	<.001
	s9_freq	1.495	0.2305	1.044	1.947	0.853	0.731	0.974	6.49	<.001
Endogenous2	s1_freq	1.000	0.0000	1.000	1.000	0.659	0.553	0.764		
	s2_freq	1.249	0.1063	1.040	1.457	0.822	0.741	0.904	11.74	<.001
	s3_freq	1.258	0.0933	1.075	1.441	0.829	0.742	0.915	13.49	<.001
	s4_freq	1.244	0.1246	1.000	1.488	0.819	0.724	0.915	9.98	<.001
	s5_freq	1.238	0.1215	1.000	1.476	0.816	0.709	0.922	10.19	<.001
	s10_freq	1.148	0.1434	0.867	1.429	0.756	0.629	0.883	8.00	<.001
	s11_freq	1.126	0.1041	0.922	1.330	0.742	0.642	0.842	10.82	<.001
	s12_freq	0.970	0.1083	0.757	1.182	0.639	0.519	0.759	8.95	<.001
	s18_freq	1.285	0.1178	1.054	1.516	0.846	0.761	0.931	10.91	<.001
	s19_freq	1.395	0.1144	1.171	1.619	0.919	0.832	1.005	12.20	<.001
Endogenous3	s13_freq	1.000	0.0000	1.000	1.000	0.979	0.844	1.113		
	s14_freq	0.736	0.0853	0.569	0.903	0.720	0.602	0.839	8.63	<.001
	s15_freq	0.883	0.1156	0.656	1.110	0.864	0.720	1.008	7.64	<.001

Variances and Covariances

Variable 1	Variable 2	Estimate	SE	95% Confidence Intervals		β	β 95% Confidence Intervals		z	p
				Lower	Upper		Lower	Upper		
s6_freq	s6_freq	0.6749	0.0000	0.67489	0.6749	0.6749	0.49839	0.851		
s7_freq	s7_freq	0.3462	0.0000	0.34619	0.3462	0.3462	0.17470	0.518		
s8_freq	s8_freq	0.2592	0.0000	0.25918	0.2592	0.2592	0.10586	0.413		
s9_freq	s9_freq	0.2731	0.0000	0.27315	0.2731	0.2731	0.06548	0.481		
s1_freq	s1_freq	0.5662	0.0000	0.56616	0.5662	0.5662	0.42707	0.705		
s2_freq	s2_freq	0.3236	0.0000	0.32365	0.3236	0.3236	0.18921	0.458		
s3_freq	s3_freq	0.3134	0.0000	0.31338	0.3134	0.3134	0.16997	0.457		
s4_freq	s4_freq	0.3287	0.0000	0.32866	0.3287	0.3287	0.17181	0.486		
s5_freq	s5_freq	0.3349	0.0000	0.33491	0.3349	0.3349	0.16108	0.509		
s10_freq	s10_freq	0.4282	0.0000	0.42817	0.4282	0.4282	0.23621	0.620		
s11_freq	s11_freq	0.4497	0.0000	0.44967	0.4497	0.4497	0.30133	0.598		
s12_freq	s12_freq	0.5922	0.0000	0.59216	0.5922	0.5922	0.43900	0.745		
s18_freq	s18_freq	0.2840	0.0000	0.28395	0.2840	0.2840	0.14005	0.428		
s19_freq	s19_freq	0.1560	0.0000	0.15604	0.1560	0.1560	-0.00242	0.315		
s13_freq	s13_freq	0.0425	0.0000	0.04253	0.0425	0.0425	-0.22106	0.306		
s14_freq	s14_freq	0.4811	0.0000	0.48109	0.4811	0.4811	0.31033	0.652		
s15_freq	s15_freq	0.2535	0.0000	0.25353	0.2535	0.2535	0.00486	0.502		
Endogenous1	Endogenous1	0.3251	0.0901	0.14860	0.5016	1.0000	1.00000	1.000	3.61	<.001
Endogenous2	Endogenous2	0.4338	0.0710	0.29475	0.5729	1.0000	1.00000	1.000	6.11	<.001
Endogenous3	Endogenous3	0.9575	0.1345	0.69388	1.2211	1.0000	1.00000	1.000	7.12	<.001
Endogenous1	Endogenous2	0.3219	0.0579	0.20843	0.4353	0.8571	0.79261	0.922	5.56	<.001
Endogenous1	Endogenous3	0.1412	0.0758	-0.00743	0.2898	0.2531	-0.02237	0.528	1.86	.063
Endogenous2	Endogenous3	0.3580	0.0595	0.24135	0.4747	0.5555	0.38441	0.727	6.01	<.001

Intercepts

Variable	Intercept	SE	95% Confidence Intervals		z	p
			Lower	Upper		
s6_freq	0.000	0.000	0.000	0.000		
s7_freq	0.000	0.000	0.000	0.000		
s8_freq	0.000	0.000	0.000	0.000		
s9_freq	0.000	0.000	0.000	0.000		
s1_freq	0.000	0.000	0.000	0.000		
s2_freq	0.000	0.000	0.000	0.000		
s3_freq	0.000	0.000	0.000	0.000		
s4_freq	0.000	0.000	0.000	0.000		
s5_freq	0.000	0.000	0.000	0.000		
s10_freq	0.000	0.000	0.000	0.000		
s11_freq	0.000	0.000	0.000	0.000		
s12_freq	0.000	0.000	0.000	0.000		
s18_freq	0.000	0.000	0.000	0.000		
s19_freq	0.000	0.000	0.000	0.000		
s13_freq	0.000	0.000	0.000	0.000		
s14_freq	0.000	0.000	0.000	0.000		
s15_freq	0.000	0.000	0.000	0.000		
Endogenous1	0.000	0.000	0.000	0.000		
Endogenous2	0.000	0.000	0.000	0.000		
Endogenous3	0.000	0.000	0.000	0.000		

Thresholds

Variable	Step	Thresholds	SE	95% Confidence Intervals		z	p
				Lower	Upper		
s6_freq	t1	-0.037	0.125	-0.283	0.208	-0.297	.766
s6_freq	t2	0.187	0.126	-0.060	0.434	1.484	.138
s6_freq	t3	0.682	0.137	0.415	0.950	4.997	<.001
s6_freq	t4	1.232	0.167	0.905	1.559	7.385	<.001
s7_freq	t1	0.264	0.127	0.015	0.512	2.077	.038
s7_freq	t2	0.449	0.130	0.194	0.704	3.453	<.001
s7_freq	t3	1.043	0.154	0.742	1.344	6.792	<.001
s7_freq	t4	1.410	0.183	1.052	1.769	7.706	<.001
s8_freq	t1	0.264	0.127	0.015	0.512	2.077	.038
s8_freq	t2	0.562	0.133	0.302	0.822	4.231	<.001
s8_freq	t3	1.181	0.163	0.862	1.500	7.250	<.001
s8_freq	t4	1.410	0.183	1.052	1.769	7.706	<.001
s9_freq	t1	0.505	0.131	0.247	0.762	3.843	<.001
s9_freq	t2	0.651	0.135	0.386	0.917	4.807	<.001
s9_freq	t3	1.001	0.151	0.705	1.297	6.627	<.001
s9_freq	t4	2.058	0.290	1.489	2.627	7.092	<.001
s1_freq	t1	-0.651	0.135	-0.917	-0.386	-4.807	<.001
s1_freq	t2	-0.187	0.126	-0.434	0.060	-1.484	.138
s1_freq	t3	0.187	0.126	-0.060	0.434	1.484	.138
s1_freq	t4	1.001	0.151	0.705	1.297	6.627	<.001
s2_freq	t1	0.162	0.126	-0.085	0.409	1.287	.198
s2_freq	t2	0.449	0.130	0.194	0.704	3.453	<.001
s2_freq	t3	1.043	0.154	0.742	1.344	6.792	<.001
s2_freq	t4	1.755	0.228	1.308	2.202	7.693	<.001
s3_freq	t1	0.112	0.126	-0.134	0.358	0.891	.373
s3_freq	t2	0.342	0.128	0.091	0.592	2.668	.008
s3_freq	t3	0.746	0.139	0.474	1.019	5.374	<.001
s3_freq	t4	1.181	0.163	0.862	1.500	7.250	<.001
s4_freq	t1	0.505	0.131	0.247	0.762	3.843	<.001
s4_freq	t2	0.885	0.145	0.601	1.169	6.107	<.001
s4_freq	t3	1.287	0.171	0.951	1.623	7.509	<.001
s4_freq	t4	1.755	0.228	1.308	2.202	7.693	<.001
s5_freq	t1	0.651	0.135	0.386	0.917	4.807	<.001
s5_freq	t2	0.885	0.145	0.601	1.169	6.107	<.001
s5_freq	t3	2.058	0.290	1.489	2.627	7.092	<.001
s10_freq	t1	0.533	0.132	0.274	0.792	4.037	<.001
s10_freq	t2	0.714	0.138	0.444	0.984	5.186	<.001
s10_freq	t3	1.132	0.159	0.820	1.445	7.105	<.001
s10_freq	t4	2.058	0.290	1.489	2.627	7.092	<.001
s11_freq	t1	0.315	0.128	0.065	0.566	2.471	.013
s11_freq	t2	0.682	0.137	0.415	0.950	4.997	<.001
s11_freq	t3	1.232	0.167	0.905	1.559	7.385	<.001
s11_freq	t4	2.058	0.290	1.489	2.627	7.092	<.001
s12_freq	t1	0.533	0.132	0.274	0.792	4.037	<.001
s12_freq	t2	0.621	0.135	0.357	0.885	4.616	<.001
s12_freq	t3	1.287	0.171	0.951	1.623	7.509	<.001
s12_freq	t4	2.330	0.375	1.596	3.065	6.218	<.001
s18_freq	t1	0.533	0.132	0.274	0.792	4.037	<.001
s18_freq	t2	0.746	0.139	0.474	1.019	5.374	<.001
s18_freq	t3	1.346	0.177	1.000	1.693	7.617	<.001
s18_freq	t4	2.058	0.290	1.489	2.627	7.092	<.001
s19_freq	t1	0.780	0.140	0.505	1.054	5.560	<.001
s19_freq	t2	1.043	0.154	0.742	1.344	6.792	<.001
s19_freq	t3	1.346	0.177	1.000	1.693	7.617	<.001
s19_freq	t4	1.885	0.252	1.392	2.378	7.494	<.001

Thresholds							
s13_freq	t1	0.885	0.145	0.601	1.169	6.107	<.001
s13_freq	t2	1.346	0.177	1.000	1.693	7.617	<.001
s13_freq	t3	2.330	0.375	1.596	3.065	6.218	<.001
s14_freq	t1	0.591	0.134	0.329	0.853	4.424	<.001
s14_freq	t2	1.087	0.156	0.780	1.393	6.952	<.001
s14_freq	t3	1.755	0.228	1.308	2.202	7.693	<.001
s14_freq	t4	2.058	0.290	1.489	2.627	7.092	<.001
s15_freq	t1	0.922	0.147	0.635	1.210	6.284	<.001
s15_freq	t2	1.232	0.167	0.905	1.559	7.385	<.001
s15_freq	t3	1.410	0.183	1.052	1.769	7.706	<.001
s15_freq	t4	2.058	0.290	1.489	2.627	7.092	<.001

Additional outputs

Reliability indices							
Variable	α	Ordinal α	ω_1	ω_2	ω_3	AVE	
Endogenous1	0.771	0.850	0.790	0.790	0.793	0.612	
Endogenous2	0.896	0.936	0.904	0.904	0.928	0.622	
Endogenous3	0.738	0.891	0.789	0.789	0.786	0.741	

Nota. The reliability() function was deprecated in 2022 and will cease to be included in future versions of semTools. See help('semTools-deprecated') for details. It is replaced by the compRelSEM() function, which can estimate alpha and model-based reliability in an even wider variety of models and data types, with greater control in specifying the desired type of reliability coefficient (i.e., more explicitly choosing assumptions). The average variance extracted should never have been included because it is not a reliability coefficient. It is now available from the AVE() function.

Covariances and correlations

Observed covariances (lower triangle) and correlations (upper triangle)																	
	s6_freq	s7_freq	s8_freq	s9_freq	s1_freq	s2_freq	s3_freq	s4_freq	s5_freq	s10_freq	s11_freq	s12_freq	s18_freq	s19_freq	s13_freq	s14_freq	s15_freq
s6_freq	1.000	0.552	0.4102	0.4859	0.400	0.414	0.322	0.367	0.365	0.416	0.3497	0.286	0.382	0.384	0.153	0.1596	0.138
s7_freq	0.552	1.000	0.7281	0.6415	0.446	0.580	0.446	0.575	0.418	0.431	0.4492	0.445	0.647	0.715	0.213	0.2111	0.248
s8_freq	0.410	0.728	1.0000	0.7039	0.531	0.588	0.517	0.592	0.474	0.527	0.6096	0.330	0.671	0.765	0.194	0.0852	0.256
s9_freq	0.486	0.641	0.7039	1.0000	0.400	0.691	0.581	0.498	0.532	0.637	0.6261	0.451	0.648	0.723	0.170	-0.0217	0.237
s1_freq	0.400	0.446	0.5313	0.4004	1.000	0.409	0.716	0.505	0.426	0.465	0.5113	0.419	0.486	0.572	0.379	0.2752	0.346
s2_freq	0.414	0.580	0.5879	0.6907	0.409	1.000	0.614	0.662	0.794	0.587	0.5378	0.550	0.699	0.669	0.536	0.2001	0.424
s3_freq	0.322	0.446	0.5173	0.5808	0.716	0.614	1.000	0.764	0.630	0.636	0.6996	0.439	0.543	0.709	0.509	0.1961	0.478
s4_freq	0.367	0.575	0.5924	0.4982	0.505	0.662	0.764	1.000	0.734	0.610	0.5126	0.514	0.626	0.755	0.449	0.1733	0.481
s5_freq	0.365	0.418	0.4739	0.5322	0.426	0.794	0.630	0.734	1.000	0.525	0.5922	0.525	0.627	0.642	0.669	0.4013	0.479
s10_freq	0.416	0.431	0.5269	0.6367	0.465	0.587	0.636	0.610	0.525	1.000	0.6099	0.585	0.573	0.599	0.273	0.1156	0.595
s11_freq	0.350	0.449	0.6096	0.6261	0.511	0.538	0.700	0.513	0.592	0.610	1.0000	0.438	0.634	0.676	0.198	0.0346	0.265
s12_freq	0.286	0.445	0.3303	0.4512	0.419	0.550	0.439	0.514	0.525	0.585	0.4380	1.000	0.518	0.620	0.401	0.2551	0.301
s18_freq	0.382	0.647	0.6707	0.6482	0.486	0.699	0.543	0.626	0.627	0.573	0.6336	0.518	1.000	0.829	0.450	0.3171	0.447
s19_freq	0.384	0.715	0.7649	0.7226	0.572	0.669	0.709	0.755	0.642	0.599	0.6761	0.620	0.829	1.000	0.268	0.2848	0.250
s13_freq	0.153	0.213	0.1944	0.1702	0.379	0.536	0.509	0.449	0.669	0.273	0.1983	0.401	0.450	0.268	1.000	0.7797	0.768
s14_freq	0.160	0.211	0.0852	-0.0217	0.275	0.200	0.196	0.173	0.401	0.116	0.0346	0.255	0.317	0.285	0.780	1.0000	0.646
s15_freq	0.138	0.248	0.2561	0.2365	0.346	0.424	0.478	0.481	0.479	0.595	0.2650	0.301	0.447	0.250	0.768	0.6457	1.000

Fitted covariances (lower triangle) and correlations (upper triangle)

	s6_freq	s7_freq	s8_freq	s9_freq	s1_freq	s2_freq	s3_freq	s4_freq	s5_freq	s10_freq	s11_freq	s12_freq	s18_freq	s19_freq	s13_freq	s14_freq	s15_freq
s6_freq	1.000	0.461	0.491	0.486	0.322	0.402	0.405	0.400	0.399	0.370	0.363	0.312	0.414	0.449	0.141	0.104	0.125
s7_freq	0.461	1.000	0.696	0.689	0.456	0.570	0.574	0.568	0.565	0.524	0.514	0.443	0.586	0.637	0.200	0.147	0.177
s8_freq	0.491	0.696	1.000	0.734	0.486	0.607	0.611	0.604	0.602	0.558	0.547	0.471	0.624	0.678	0.213	0.157	0.188
s9_freq	0.486	0.689	0.734	1.000	0.481	0.601	0.605	0.599	0.596	0.553	0.542	0.467	0.618	0.671	0.211	0.155	0.186
s1_freq	0.322	0.456	0.486	0.481	1.000	0.542	0.546	0.540	0.537	0.498	0.489	0.421	0.557	0.605	0.358	0.264	0.316
s2_freq	0.402	0.570	0.607	0.601	0.542	1.000	0.681	0.674	0.671	0.622	0.610	0.525	0.696	0.756	0.447	0.329	0.395
s3_freq	0.405	0.574	0.611	0.605	0.546	0.681	1.000	0.679	0.676	0.627	0.615	0.529	0.701	0.761	0.450	0.332	0.398
s4_freq	0.400	0.568	0.604	0.599	0.540	0.674	0.679	1.000	0.668	0.620	0.608	0.523	0.693	0.753	0.445	0.328	0.393
s5_freq	0.399	0.565	0.602	0.596	0.537	0.671	0.676	0.668	1.000	0.617	0.605	0.521	0.690	0.749	0.443	0.326	0.391
s10_freq	0.370	0.524	0.558	0.553	0.498	0.622	0.627	0.620	0.617	1.000	0.561	0.483	0.640	0.695	0.411	0.303	0.363
s11_freq	0.363	0.514	0.547	0.542	0.489	0.610	0.615	0.608	0.605	0.561	1.000	0.474	0.628	0.682	0.403	0.297	0.356
s12_freq	0.312	0.443	0.471	0.467	0.421	0.525	0.529	0.523	0.521	0.483	0.474	1.000	0.540	0.587	0.347	0.256	0.306
s18_freq	0.414	0.586	0.624	0.618	0.557	0.696	0.701	0.693	0.690	0.640	0.628	0.540	1.000	0.777	0.460	0.339	0.406
s19_freq	0.449	0.637	0.678	0.671	0.605	0.756	0.761	0.753	0.749	0.695	0.682	0.587	0.777	1.000	0.499	0.368	0.441
s13_freq	0.141	0.200	0.213	0.211	0.358	0.447	0.450	0.445	0.443	0.411	0.403	0.347	0.460	0.499	1.000	0.705	0.845
s14_freq	0.104	0.147	0.157	0.155	0.264	0.329	0.332	0.328	0.326	0.303	0.297	0.256	0.339	0.368	0.705	1.000	0.622
s15_freq	0.125	0.177	0.188	0.186	0.316	0.395	0.398	0.393	0.391	0.363	0.356	0.306	0.406	0.441	0.845	0.622	1.000

Residual covariances (lower triangle) and correlations (upper triangle)

	s6_freq	s7_freq	s8_freq	s9_freq	s1_freq	s2_freq	s3_freq	s4_freq	s5_freq	s10_freq	s11_freq	s12_freq	s18_freq	s19_freq	s13_freq	s14_freq	s15_freq
s6_freq	0.0000	0.09146	-0.0805	-2.12e-4	0.07845	0.01178	-0.08251	-0.03347	-0.03347	0.04632	-0.01287	-0.02623	-0.03121	-0.06533	0.01148	0.0556	0.012
s7_freq	0.0915	0.00000	0.0322	-0.0479	-0.01093	0.01045	-0.12776	0.00713	-0.14741	-0.09283	-0.06487	0.00266	0.06027	0.07820	0.01237	0.0637	0.07
s8_freq	-0.0805	0.03215	0.0000	-0.0299	0.04538	-0.01876	-0.09391	-0.01204	-0.12772	-0.03095	0.06232	-0.14081	0.04651	0.08724	-0.01869	-0.0717	0.06
s9_freq	-2.12e-4	-0.04786	-0.0299	0.0000	-0.08088	0.08982	-0.02467	-0.10045	-0.06370	0.08417	0.08407	-0.01539	0.02985	0.05135	-0.04088	-0.1771	0.05
s1_freq	0.0785	-0.01093	0.0454	-0.0809	0.00000	-0.13286	0.17064	-0.03421	-0.11129	-0.03305	0.02271	-0.00176	-0.07149	-0.03313	0.02069	0.0116	0.03
s2_freq	0.0118	0.01045	-0.0188	0.0898	-0.13286	0.00000	-0.06737	-0.01151	0.12337	-0.03462	-0.07234	0.02462	0.00308	-0.08604	0.08880	-0.1289	0.02
s3_freq	-0.0825	-0.12776	-0.0939	-0.0247	0.17064	-0.06737	0.00000	0.08553	-0.04537	0.00970	0.08493	-0.09034	-0.15802	-0.05191	0.05885	-0.1355	0.08
s4_freq	-0.0335	0.00713	-0.0120	-0.1004	-0.03421	-0.01151	0.08553	0.00000	0.06563	-0.00962	-0.09521	-0.00923	-0.06753	0.00203	0.00373	-0.1546	0.08
s5_freq	-0.0335	-0.14741	-0.1277	-0.0637	-0.11129	0.12337	-0.04537	0.06563	0.00000	-0.09216	-0.01279	0.00369	-0.06279	-0.10671	0.22595	0.0750	0.08
s10_freq	0.0463	-0.09283	-0.0309	0.0842	-0.03305	-0.03462	0.00970	-0.00962	-0.09216	0.00000	0.04889	0.10168	-0.06662	-0.09585	-0.13828	-0.1870	0.23
s11_freq	-0.0129	-0.06487	0.0623	0.0841	0.02271	-0.07234	0.08493	-0.09521	-0.01279	0.04889	0.00000	-0.03580	0.00581	-0.00542	-0.20494	-0.2622	-0.05
s12_freq	-0.0262	0.00266	-0.1408	-0.0154	-0.00176	0.02462	-0.09034	-0.00923	0.00369	0.10168	-0.03580	0.00000	-0.02229	0.03362	0.05423	-3.94e-4	-0.00
s18_freq	-0.0312	0.06027	0.0465	0.0299	-0.07149	0.00308	-0.15802	-0.06753	-0.06279	-0.06662	0.00581	-0.02229	0.00000	0.05124	-0.01025	-0.0215	0.04
s19_freq	-0.0653	0.07820	0.0872	0.0514	-0.03313	-0.08604	-0.05191	0.00203	-0.10671	-0.09585	-0.00542	0.03362	0.05124	0.00000	-0.23098	-0.0828	-0.15
s13_freq	0.0115	0.01237	-0.0187	-0.0409	0.02069	0.08880	0.05885	0.00373	0.22595	-0.13828	-0.20494	0.05423	-0.01025	-0.23098	0.00000	0.0748	-0.07
s14_freq	0.0556	0.06372	-0.0717	-0.1771	0.01161	-0.12893	-0.13546	-0.15457	0.07496	-0.18701	-0.26224	-3.94e-4	-0.02149	-0.08283	0.07483	0.0000	0.02
s15_freq	0.0129	0.07122	0.0679	0.0501	0.03016	0.02971	0.08002	0.08820	0.08747	0.23164	-0.09102	-0.00517	0.04056	-0.19108	-0.07718	0.0233	0.00

Modification indices

Modification indices

			Modif. index	EPC	sEPC (LV)	sEPC (all)	sEPC (nox)
s1_freq	~~	s3_freq	11.26112	-0.229	-0.229	-0.543	-0.543
Endogenous1	==	s5_freq	9.59985	1.117	0.637	0.637	0.637
Endogenous3	==	s5_freq	9.10901	-0.333	-0.326	-0.326	-0.326
s13_freq	~~	s15_freq	8.23115	0.409	0.409	3.934	3.934
Endogenous3	==	s19_freq	7.85186	0.359	0.352	0.352	0.352
s2_freq	~~	s5_freq	7.62453	-0.181	-0.181	-0.549	-0.549
Endogenous1	==	s19_freq	7.42103	-0.947	-0.540	-0.540	-0.540
Endogenous2	==	s14_freq	7.40029	0.349	0.230	0.230	0.230
Endogenous3	==	s11_freq	7.28822	0.320	0.314	0.314	0.314
Endogenous1	==	s14_freq	6.68026	0.338	0.193	0.193	0.193
s5_freq	~~	s13_freq	5.91482	-0.257	-0.257	-2.149	-2.149
Endogenous2	==	s15_freq	4.79103	-0.331	-0.218	-0.218	-0.218
Endogenous1	==	s11_freq	4.74678	-0.725	-0.413	-0.413	-0.413
Endogenous1	==	s15_freq	4.58046	-0.331	-0.189	-0.189	-0.189
s13_freq	~~	s14_freq	4.57292	-0.246	-0.246	-1.721	-1.721
s10_freq	~~	s15_freq	4.46170	-0.250	-0.250	-0.757	-0.757
s11_freq	~~	s14_freq	4.29204	0.272	0.272	0.585	0.585
s19_freq	~~	s13_freq	2.91676	0.248	0.248	3.046	3.046
s3_freq	~~	s4_freq	2.88301	-0.119	-0.119	-0.371	-0.371
s10_freq	~~	s12_freq	2.85807	-0.124	-0.124	-0.245	-0.245
s3_freq	~~	s18_freq	2.79659	0.177	0.177	0.594	0.594
s8_freq	~~	s19_freq	2.75330	-0.120	-0.120	-0.598	-0.598
s1_freq	~~	s2_freq	2.65113	0.150	0.150	0.350	0.350
s11_freq	~~	s13_freq	2.54361	0.216	0.216	1.564	1.564
Endogenous1	==	s3_freq	2.50504	0.565	0.322	0.322	0.322
s8_freq	~~	s5_freq	2.30713	0.146	0.146	0.494	0.494
s18_freq	~~	s19_freq	2.24792	-0.094	-0.094	-0.445	-0.445
s8_freq	~~	s12_freq	2.20202	0.152	0.152	0.389	0.389
s9_freq	~~	s1_freq	2.07797	0.100	0.100	0.254	0.254
s9_freq	~~	s11_freq	1.91046	-0.102	-0.102	-0.290	-0.290
s6_freq	~~	s7_freq	1.80476	-0.120	-0.120	-0.248	-0.248
s5_freq	~~	s19_freq	1.79886	0.127	0.127	0.555	0.555
s7_freq	~~	s3_freq	1.74082	0.142	0.142	0.431	0.431
s10_freq	~~	s14_freq	1.70077	0.193	0.193	0.424	0.424
s9_freq	~~	s2_freq	1.68634	-0.106	-0.106	-0.356	-0.356
s3_freq	~~	s11_freq	1.68553	-0.103	-0.103	-0.275	-0.275
s9_freq	~~	s10_freq	1.65589	-0.101	-0.101	-0.296	-0.296
s7_freq	~~	s5_freq	1.62787	0.159	0.159	0.466	0.466
s19_freq	~~	s15_freq	1.59946	0.201	0.201	1.012	1.012
s2_freq	~~	s19_freq	1.58399	0.106	0.106	0.471	0.471
s9_freq	~~	s4_freq	1.53889	0.114	0.114	0.381	0.381
s9_freq	~~	s14_freq	1.51369	0.188	0.188	0.520	0.520
s4_freq	~~	s11_freq	1.38630	0.109	0.109	0.283	0.283
s4_freq	~~	s5_freq	1.34898	-0.087	-0.087	-0.262	-0.262
s4_freq	~~	s14_freq	1.30691	0.161	0.161	0.404	0.404
s3_freq	~~	s12_freq	1.27531	0.102	0.102	0.238	0.238
s2_freq	~~	s14_freq	1.19952	0.136	0.136	0.345	0.345
s2_freq	~~	s11_freq	1.19459	0.087	0.087	0.227	0.227
s10_freq	~~	s19_freq	1.17765	0.110	0.110	0.427	0.427
s8_freq	~~	s3_freq	1.14778	0.106	0.106	0.372	0.372
s3_freq	~~	s14_freq	1.12867	0.142	0.142	0.366	0.366
s2_freq	~~	s3_freq	1.07078	0.083	0.083	0.261	0.261
s10_freq	~~	s13_freq	1.02290	0.145	0.145	1.078	1.078
s2_freq	~~	s13_freq	1.01570	-0.102	-0.102	-0.869	-0.869
s1_freq	~~	s5_freq	1.00993	0.119	0.119	0.274	0.274
Endogenous1	==	s12_freq	1.00502	0.363	0.207	0.207	0.207
s7_freq	~~	s10_freq	0.99756	0.103	0.103	0.268	0.268
s8_freq	~~	s11_freq	0.96637	-0.075	-0.075	-0.220	-0.220
s5_freq	~~	s10_freq	0.92466	0.103	0.103	0.271	0.271

Modification indices

s7_freq	~~	s19_freq	0.88578	-0.092	-0.092	-0.394	-0.394
s4_freq	~~	s15_freq	0.82908	-0.098	-0.098	-0.341	-0.341
s10_freq	~~	s11_freq	0.78650	-0.063	-0.063	-0.143	-0.143
Endogenous3	==	s3_freq	0.78560	-0.106	-0.104	-0.104	-0.104
s6_freq	~~	s1_freq	0.77422	-0.085	-0.085	-0.138	-0.138
s9_freq	~~	s5_freq	0.70643	0.074	0.074	0.245	0.245
s6_freq	~~	s8_freq	0.66333	0.094	0.094	0.224	0.224
Endogenous1	==	s18_freq	0.65788	-0.263	-0.150	-0.150	-0.150
s1_freq	~~	s18_freq	0.65355	0.080	0.080	0.199	0.199
s9_freq	~~	s19_freq	0.63821	-0.064	-0.064	-0.309	-0.309
Endogenous1	==	s4_freq	0.63622	0.280	0.160	0.160	0.160
s4_freq	~~	s18_freq	0.62771	0.078	0.078	0.254	0.254
s6_freq	~~	s3_freq	0.62176	0.090	0.090	0.195	0.195
s7_freq	~~	s18_freq	0.61153	-0.071	-0.071	-0.226	-0.226
s5_freq	~~	s18_freq	0.53866	0.072	0.072	0.234	0.234
s7_freq	~~	s8_freq	0.52275	-0.060	-0.060	-0.200	-0.200
s7_freq	~~	s11_freq	0.51546	0.072	0.072	0.182	0.182
Endogenous3	==	s12_freq	0.47737	-0.077	-0.075	-0.075	-0.075
s10_freq	~~	s18_freq	0.47601	0.074	0.074	0.213	0.213
s3_freq	~~	s19_freq	0.47557	0.063	0.063	0.283	0.283
s8_freq	~~	s18_freq	0.47211	-0.057	-0.057	-0.209	-0.209
s5_freq	~~	s15_freq	0.47136	-0.093	-0.093	-0.319	-0.319
s7_freq	~~	s9_freq	0.46936	0.067	0.067	0.216	0.216
s8_freq	~~	s14_freq	0.46347	0.081	0.081	0.230	0.230
s11_freq	~~	s15_freq	0.45133	0.095	0.095	0.282	0.282
s3_freq	~~	s15_freq	0.44364	-0.086	-0.086	-0.305	-0.305
s14_freq	~~	s15_freq	0.39672	-0.063	-0.063	-0.180	-0.180
s5_freq	~~	s14_freq	0.37717	-0.079	-0.079	-0.196	-0.196
s19_freq	~~	s14_freq	0.36249	0.087	0.087	0.317	0.317
s8_freq	~~	s9_freq	0.33780	0.053	0.053	0.199	0.199
s8_freq	~~	s1_freq	0.32342	-0.051	-0.051	-0.133	-0.133
Endogenous1	==	s1_freq	0.29670	0.177	0.101	0.101	0.101
s12_freq	~~	s13_freq	0.28084	-0.058	-0.058	-0.366	-0.366
s6_freq	~~	s19_freq	0.27063	0.070	0.070	0.216	0.216
s3_freq	~~	s5_freq	0.26815	0.052	0.052	0.160	0.160
s7_freq	~~	s14_freq	0.26506	-0.069	-0.069	-0.169	-0.169
s7_freq	~~	s15_freq	0.26220	-0.078	-0.078	-0.263	-0.263
s12_freq	~~	s19_freq	0.25902	-0.041	-0.041	-0.135	-0.135
s8_freq	~~	s15_freq	0.25752	-0.076	-0.076	-0.295	-0.295
Endogenous2	==	s9_freq	0.24763	-0.190	-0.125	-0.125	-0.125
s2_freq	~~	s10_freq	0.23902	0.041	0.041	0.111	0.111
Endogenous2	==	s13_freq	0.22462	-0.079	-0.052	-0.052	-0.052
Endogenous3	==	s4_freq	0.21699	-0.053	-0.052	-0.052	-0.052
s3_freq	~~	s13_freq	0.21649	-0.063	-0.063	-0.546	-0.546
Endogenous3	==	s1_freq	0.20144	-0.050	-0.049	-0.049	-0.049
s11_freq	~~	s12_freq	0.20049	0.040	0.040	0.077	0.077
s6_freq	~~	s14_freq	0.18492	-0.057	-0.057	-0.101	-0.101
s1_freq	~~	s19_freq	0.16708	0.038	0.038	0.129	0.129
s9_freq	~~	s18_freq	0.16253	-0.035	-0.035	-0.125	-0.125
Endogenous1	==	s13_freq	0.16016	-0.068	-0.039	-0.039	-0.039
s8_freq	~~	s10_freq	0.15949	0.036	0.036	0.107	0.107
s6_freq	~~	s10_freq	0.15836	-0.049	-0.049	-0.091	-0.091
s9_freq	~~	s3_freq	0.15418	0.030	0.030	0.104	0.104
s2_freq	~~	s12_freq	0.14328	-0.029	-0.029	-0.067	-0.067
Endogenous2	==	s7_freq	0.14287	0.141	0.093	0.093	0.093
Endogenous1	==	s2_freq	0.14126	-0.119	-0.068	-0.068	-0.068
s18_freq	~~	s15_freq	0.13830	-0.044	-0.044	-0.165	-0.165
s1_freq	~~	s4_freq	0.12893	0.038	0.038	0.087	0.087
Endogenous3	==	s18_freq	0.12276	0.035	0.035	0.035	0.035
s9_freq	~~	s15_freq	0.11232	-0.055	-0.055	-0.207	-0.207

Modification indices

s6_freq	~~	s4_freq	0.11140	0.037	0.037	0.078	0.078
s2_freq	~~	s15_freq	0.09695	-0.033	-0.033	-0.116	-0.116
s1_freq	~~	s10_freq	0.08741	0.035	0.035	0.072	0.072
s6_freq	~~	s18_freq	0.08156	0.034	0.034	0.077	0.077
s9_freq	~~	s13_freq	0.08148	0.046	0.046	0.427	0.427
s6_freq	~~	s5_freq	0.07319	0.035	0.035	0.075	0.075
s8_freq	~~	s2_freq	0.07007	0.022	0.022	0.077	0.077
s12_freq	~~	s18_freq	0.06454	0.025	0.025	0.060	0.060
s1_freq	~~	s11_freq	0.05763	-0.025	-0.025	-0.049	-0.049
Endogenous2	==	s6_freq	0.05536	0.081	0.053	0.053	0.053
s6_freq	~~	s12_freq	0.04641	0.027	0.027	0.043	0.043
s1_freq	~~	s15_freq	0.04231	-0.031	-0.031	-0.082	-0.082
s5_freq	~~	s11_freq	0.04029	0.016	0.016	0.040	0.040
s18_freq	~~	s14_freq	0.03950	0.023	0.023	0.062	0.062
s2_freq	~~	s4_freq	0.02981	0.014	0.014	0.043	0.043
s1_freq	~~	s13_freq	0.02761	-0.022	-0.022	-0.140	-0.140
s9_freq	~~	s12_freq	0.02737	0.017	0.017	0.041	0.041
s8_freq	~~	s13_freq	0.02247	0.022	0.022	0.209	0.209
s8_freq	~~	s4_freq	0.02034	0.014	0.014	0.047	0.047
s7_freq	~~	s2_freq	0.02007	-0.012	-0.012	-0.037	-0.037
s7_freq	~~	s1_freq	0.01852	0.012	0.012	0.028	0.028
Endogenous3	==	s7_freq	0.01705	-0.016	-0.015	-0.015	-0.015
s3_freq	~~	s10_freq	0.01701	-0.012	-0.012	-0.031	-0.031
s4_freq	~~	s12_freq	0.01697	0.011	0.011	0.024	0.024
s6_freq	~~	s11_freq	0.01550	0.014	0.014	0.025	0.025
s6_freq	~~	s2_freq	0.01494	-0.013	-0.013	-0.028	-0.028
s1_freq	~~	s14_freq	0.01493	-0.012	-0.012	-0.024	-0.024
s18_freq	~~	s13_freq	0.01470	0.012	0.012	0.109	0.109
Endogenous1	==	s10_freq	0.01455	-0.043	-0.024	-0.024	-0.024
Endogenous3	==	s2_freq	0.01442	-0.012	-0.012	-0.012	-0.012
s4_freq	~~	s10_freq	0.01442	0.011	0.011	0.030	0.030
Endogenous3	==	s8_freq	0.01014	0.012	0.012	0.012	0.012
s7_freq	~~	s4_freq	0.00923	-0.008	-0.008	-0.025	-0.025
s6_freq	~~	s15_freq	0.00721	-0.013	-0.013	-0.032	-0.032
s11_freq	~~	s19_freq	0.00598	0.007	0.007	0.025	0.025
s7_freq	~~	s13_freq	0.00570	-0.013	-0.013	-0.111	-0.111
s11_freq	~~	s18_freq	0.00566	-0.007	-0.007	-0.019	-0.019
s6_freq	~~	s13_freq	0.00548	-0.012	-0.012	-0.071	-0.071
Endogenous3	==	s10_freq	0.00500	-0.008	-0.008	-0.008	-0.008
s2_freq	~~	s18_freq	0.00252	-0.004	-0.004	-0.013	-0.013
s5_freq	~~	s12_freq	0.00240	-0.004	-0.004	-0.010	-0.010
Endogenous2	==	s8_freq	0.00205	-0.018	-0.012	-0.012	-0.012
Endogenous3	==	s9_freq	0.00205	0.006	0.005	0.005	0.005
s12_freq	~~	s15_freq	0.00159	0.005	0.005	0.014	0.014
Endogenous3	==	s6_freq	0.00104	-0.004	-0.003	-0.003	-0.003
s7_freq	~~	s12_freq	9.62e-4	-0.003	-0.003	-0.006	-0.006
s4_freq	~~	s19_freq	8.81e-4	-0.003	-0.003	-0.011	-0.011
s4_freq	~~	s13_freq	8.44e-4	-0.004	-0.004	-0.034	-0.034
s1_freq	~~	s12_freq	7.17e-4	0.002	0.002	0.004	0.004
s12_freq	~~	s14_freq	9.61e-6	0.000	0.000	0.001	0.001
s6_freq	~~	s9_freq	6.57e-6	0.000	0.000	0.001	0.001

Path Model

Path diagrams

