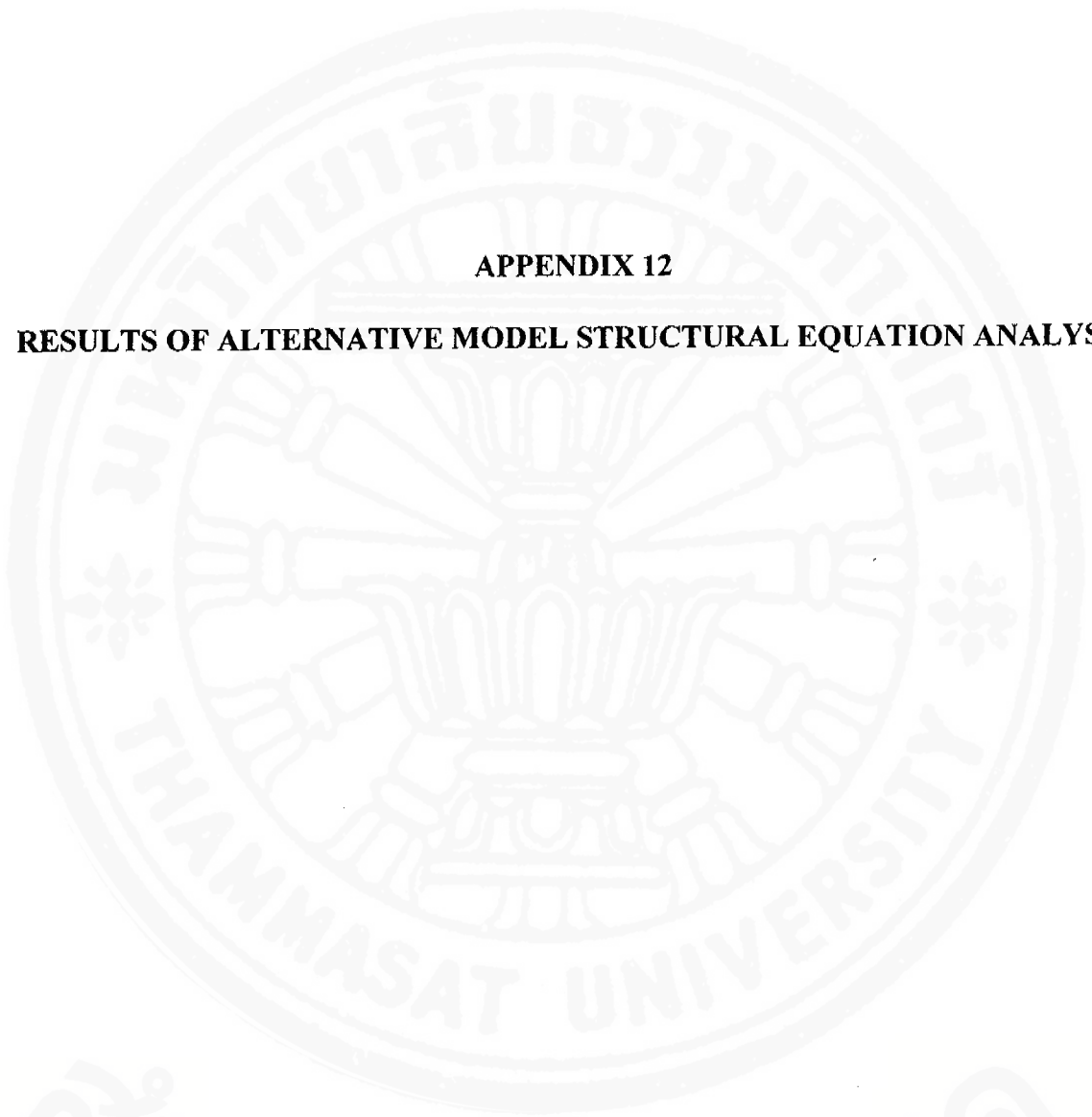


APPENDIX 12

RESULTS OF ALTERNATIVE MODEL STRUCTURAL EQUATION ANALYSIS



สำนักหอสมุด

RESULTS OF ALTERNATIVE MODEL STRUCTURAL EQUATION ANALYSIS

Title

IT Utilization Full Structural Model

dsr2	observed	endogenous
knowl	observed	endogenous
splan	observed	endogenous
adapt	observed	endogenous
respond	observed	endogenous
prospect	observed	endogenous
salout	observed	endogenous
releff	observed	endogenous
salexp	observed	endogenous
dan2	observed	endogenous
dan1	observed	endogenous
com2	observed	endogenous
dan3	observed	endogenous
dan4	observed	endogenous
cust3	observed	endogenous
cust4	observed	endogenous
wrksmrt	unobserved	endogenous
valadd	unobserved	endogenous
sperf	unobserved	endogenous
itu	unobserved	endogenous
d2	unobserved	exogenous
e4	unobserved	exogenous
e5	unobserved	exogenous
e6	unobserved	exogenous
e11	unobserved	exogenous
e10	unobserved	exogenous
e16	unobserved	exogenous
e14	unobserved	exogenous
e15	unobserved	exogenous
r1	unobserved	exogenous
r4	unobserved	exogenous
r3	unobserved	exogenous
d8	unobserved	exogenous
d7	unobserved	exogenous
d5	unobserved	exogenous
d9	unobserved	exogenous
d10	unobserved	exogenous
r11	unobserved	exogenous
e12	unobserved	exogenous
e13	unobserved	exogenous

Number of variables in your model:	40
Number of observed variables:	16
Number of unobserved variables:	24
Number of exogenous variables:	20
Number of endogenous variables:	20

**RESULTS OF ALTERNATIVE MODEL STRUCTURAL EQUATION ANALYSIS
(Continued)**

Summary of Parameters

	Weights	Covariances	Variances	Means	Intercepts	Total
Fixed	24	0	0	0	0	24
Labeled	0	0	0	0	0	0
Unlabeled	17	3	20	0	0	40
Total	41	3	20	0	0	64

The model is recursive.

Sample size = 324

Computation of degrees of freedom

Number of distinct sample moments = 136

Number of distinct parameters to be estimated = 40

Degrees of freedom = 136 - 40 = 96

Minimum was achieved

Chi-square = 201.511

Degrees of freedom = 96

Probability level = 0.000

Assessment of normality

	min	max	skew	c.r.	kurtosis	c.r.
cust4	1.000	5.000	-0.401	-2.945	-0.046	-0.168
cust3	1.000	5.000	-0.192	-1.411	-0.515	-1.891
dan4	1.000	5.000	0.496	3.642	-0.923	-3.393
dan3	1.000	5.000	0.411	3.024	-0.737	-2.708
com2	1.000	5.000	0.168	1.235	-0.765	-2.812
dan1	1.000	5.000	0.168	1.234	-0.727	-2.672
dan2	1.000	5.000	0.169	1.245	-0.822	-3.022
salexp	1.500	5.000	-0.074	-0.544	-0.519	-1.907
releff	2.222	5.000	-0.251	-1.843	0.018	0.065
salout	1.500	5.000	-0.274	-2.013	-0.446	-1.637
prospect	2.400	5.000	-0.279	-2.053	-0.544	-1.999
respond	2.000	5.000	-0.219	-1.608	0.180	0.661
adapt	2.250	5.000	-0.281	-2.068	-0.503	-1.846
splan	2.000	5.000	-0.366	-2.692	-0.366	-1.347
know1	2.000	5.000	-0.461	-3.386	0.291	1.071
dsr2	1.000	5.000	-0.212	-1.561	-0.499	-1.834

Multivariate

30.205

11.327

**RESULTS OF ALTERNATIVE MODEL STRUCTURAL EQUATION ANALYSIS
(Continued)**

Minimization History

Iteration	Discrepancy
0	2473.110
1	1426.845
2	1082.834
3	667.868
4	420.866
5	315.358
6	282.566
7	223.033
8	210.520
9	204.896
10	202.564
11	201.737
12	201.536
13	201.512
14	201.511
15	201.511

Regression Weights

	Estimate	S.E.	C.R.	P	Label
wrksmrt<--itu	1.000				
wrksmrt<--itu	1.000				
valadd<--itu	0.778	0.164	4.745	0.000	par-9
sperf<--valadd	0.424	0.110	3.857	0.000	par-6
sperf<--wrksmrt	0.537	0.128	4.181	0.000	par-7
sperf<--itu	0.206	0.171	1.209	0.227	par-8
knowl<--wrksmrt	1.000				
splan<--wrksmrt	1.132	0.103	10.989	0.000	par-1
adapt<--wrksmrt	1.135	0.098	11.614	0.000	par-2
respond<--valadd	1.000				
prospect<--valadd	1.057	0.087	12.219	0.000	par-3
salout<--sperf	1.000				
releff<--sperf	0.907	0.080	11.361	0.000	par-4
salexp<--sperf	0.863	0.098	8.807	0.000	par-5
dsr2<--itu	3.549	0.701	5.060	0.000	par-10
com2<--itu	4.898	0.898	5.454	0.000	par-11
dan1<--itu	5.481	0.985	5.567	0.000	par-12
dan2<--itu	6.687	1.177	5.682	0.000	par-13
dan3<--itu	5.619	1.007	5.582	0.000	par-14
dan4<--itu	5.202	0.958	5.432	0.000	par-15
cust3<--valadd	1.091	0.117	9.359	0.000	par-16
cust4<--valadd	1.083	0.105	10.352	0.000	par-17

**RESULTS OF ALTERNATIVE MODEL STRUCTURAL EQUATION ANALYSIS
(Continued)**

Standardized Regression Weights

	Estimate
wrksmrt<--itu	0.382
valadd<--itu	0.275
sperf<--valadd	0.402
sperf<--wrksmrt	0.470
sperf<--itu	0.069
knowl<--wrksmrt	0.734
splan<--wrksmrt	0.690
adapt<--wrksmrt	0.737
respond<--valadd	0.783
prospect<--valadd	0.741
salout<--sperf	0.654
releff<--sperf	0.846
salexp<--sperf	0.576
dsr2<--itu	0.523
com2<--itu	0.694
dan1<--itu	0.772
dan2<--itu	0.895
dan3<--itu	0.786
dan4<--itu	0.686
cust3<--valadd	0.567
cust4<--valadd	0.624

Covariances

	Estimate	S.E.	C.R.	P	Label
r1<-->r3	0.123	0.016	7.447	0.000	par-18
d9<-->d10	0.261	0.047	5.515	0.000	par-19
e12<-->e13	0.185	0.032	5.871	0.000	par-20

Correlations

	Estimate
r1<-->r3	0.719
d9<-->d10	0.412
e12<-->e13	0.416

**RESULTS OF ALTERNATIVE MODEL STRUCTURAL EQUATION ANALYSIS
(Continued)**

Variances

	Estimate	S.E.	C.R.	P	Label
r11	0.026	0.009	2.824	0.005	par-21
r1	0.151	0.022	6.774	0.000	par-22
r3	0.192	0.026	7.468	0.000	par-23
r4	0.067	0.016	4.317	0.000	par-24
d2	0.867	0.071	12.154	0.000	par-25
e4	0.152	0.016	9.447	0.000	par-26
e5	0.250	0.025	10.196	0.000	par-27
e6	0.192	0.020	9.380	0.000	par-28
e11	0.131	0.016	8.307	0.000	par-29
e10	0.191	0.020	9.323	0.000	par-30
e16	0.310	0.029	10.819	0.000	par-31
e14	0.346	0.030	11.477	0.000	par-32
e15	0.076	0.012	6.177	0.000	par-33
d8	0.289	0.044	6.608	0.000	par-34
d7	0.527	0.051	10.411	0.000	par-35
d5	0.668	0.059	11.301	0.000	par-36
d9	0.507	0.050	10.099	0.000	par-37
d10	0.791	0.071	11.182	0.000	par-38
e12	0.521	0.046	11.338	0.000	par-39
e13	0.382	0.035	10.919	0.000	par-40

Squared Multiple Correlations

	Estimate
itu	0.000
valadd	0.075
wrksmrt	0.146
sperf	0.709
cust4	0.390
cust3	0.322
dan4	0.470
dan3	0.618
com2	0.482
dan1	0.597
dan2	0.800
salexp	0.332
releff	0.715
salout	0.427
prospect	0.549
respond	0.613
adapt	0.544
splan	0.476
knowl	0.539
dsr2	0.274

**RESULTS OF ALTERNATIVE MODEL STRUCTURAL EQUATION ANALYSIS
(Continued)**

Standardized Total Effects - Estimates

	itu	valadd	wrksmrt	sperf
valadd	0.275	0.000	0.000	0.000
wrksmrt	0.382	0.000	0.000	0.000
sperf	0.359	0.402	0.470	0.000
cust4	0.172	0.624	0.000	0.000
cust3	0.156	0.567	0.000	0.000
dan4	0.686	0.000	0.000	0.000
dan3	0.786	0.000	0.000	0.000
com2	0.694	0.000	0.000	0.000
dan1	0.772	0.000	0.000	0.000
dan2	0.895	0.000	0.000	0.000
salexp	0.207	0.232	0.271	0.576
releff	0.304	0.340	0.397	0.846
salout	0.235	0.263	0.307	0.654
prospect	0.204	0.741	0.000	0.000
respond	0.215	0.783	0.000	0.000
adapt	0.282	0.000	0.737	0.000
splan	0.264	0.000	0.690	0.000
knowl	0.281	0.000	0.734	0.000
dsr2	0.523	0.000	0.000	0.000

Standardized Direct Effects - Estimates

	itu	valadd	wrksmrt	sperf
valadd	0.275	0.000	0.000	0.000
wrksmrt	0.382	0.000	0.000	0.000
sperf	0.069	0.402	0.470	0.000
cust4	0.000	0.624	0.000	0.000
cust3	0.000	0.567	0.000	0.000
dan4	0.686	0.000	0.000	0.000
dan3	0.786	0.000	0.000	0.000
com2	0.694	0.000	0.000	0.000
dan1	0.772	0.000	0.000	0.000
dan2	0.895	0.000	0.000	0.000
salexp	0.000	0.000	0.000	0.576
releff	0.000	0.000	0.000	0.846
salout	0.000	0.000	0.000	0.654
prospect	0.000	0.741	0.000	0.000
respond	0.000	0.783	0.000	0.000
adapt	0.000	0.000	0.737	0.000
splan	0.000	0.000	0.690	0.000
knowl	0.000	0.000	0.734	0.000
dsr2	0.523	0.000	0.000	0.000

Standardized Indirect Effects - Estimates

	itu	valadd	wrksmrt	sperf
valadd	0.000	0.000	0.000	0.000
wrksmrt	0.000	0.000	0.000	0.000
sperf	0.290	0.000	0.000	0.000
cust4	0.172	0.000	0.000	0.000
cust3	0.156	0.000	0.000	0.000
dan4	0.000	0.000	0.000	0.000
dan3	0.000	0.000	0.000	0.000
com2	0.000	0.000	0.000	0.000

**RESULTS OF ALTERNATIVE MODEL STRUCTURAL EQUATION ANALYSIS
(Continued)**

Standardized Indirect Effects - Estimates

	itu	valadd	wrksmrt	sperf
dan1	0.000	0.000	0.000	0.000
dan2	0.000	0.000	0.000	0.000
salexp	0.207	0.232	0.271	0.000
releff	0.304	0.340	0.397	0.000
salout	0.235	0.263	0.307	0.000
prospect	0.204	0.000	0.000	0.000
respond	0.215	0.000	0.000	0.000
adapt	0.282	0.000	0.000	0.000
splan	0.264	0.000	0.000	0.000
knowl	0.281	0.000	0.000	0.000
dsr2	0.000	0.000	0.000	0.000

Fit Measures

Fit Measure	Default model	Saturated	Independence	Macro
Discrepancy	219.169	0.000	2707.316	CMIN
Discrepancy	201.511	0.000	2428.872	CMIN
Degrees of freedom	96	0	120	DF
P	0.000		0.000	P
Number of parameters	40	136	16	NPAR
Discrepancy / df	2.099		20.241	CMINDF
RMR	0.042	0.000	0.289	RMR
GFI	0.931	1.000	0.352	GFI
Adjusted GFI	0.902		0.265	AGFI
Parsimony-adjusted GFI	0.657		0.310	PGFI
Normed fit index	0.917	1.000	0.000	NFI
Relative fit index	0.896		0.000	RFI
Incremental fit index	0.955	1.000	0.000	IFI
Tucker-Lewis index	0.943		0.000	TLI
Comparative fit index	0.954	1.000	0.000	CFI
Parsimony ratio	0.800	0.000	1.000	PRATIO
Parsimony-adjusted NFI	0.734	0.000	0.000	PNFI
Parsimony-adjusted CFI	0.763	0.000	0.000	PCFI
Noncentrality parameter estimate	105.511	0.000	2308.872	NCP
NCP lower bound	68.578	0.000	2152.386	NCPLO
NCP upper bound	150.206	0.000	2472.717	NCPHI
FMIN	0.624	0.000	7.520	FMIN
F0	0.327	0.000	7.148	F0
F0 lower bound	0.212	0.000	6.664	F0LO
F0 upper bound	0.465	0.000	7.655	F0HI
RMSEA	0.058		0.244	RMSEA
RMSEA lower bound	0.047		0.236	RMSEALO
RMSEA upper bound	0.070		0.253	RMSEAHl
P for test of close fit	0.109		0.000	PCLOSE
Akaike information criterion (AIC)	281.511	272.000	2460.872	AIC
Browne-Cudeck criterion	285.956	287.111	2462.650	BCC
Bayes information criterion	543.645	1163.253	2565.725	BIC
Consistent AIC	472.741	922.181	2537.364	CAIC
Expected cross validation index	0.872	0.842	7.619	ECVI
ECVI lower bound	0.757	0.842	7.134	ECVILO
ECVI upper bound	1.010	0.842	8.126	ECVIHI
MECVI	0.885	0.889	7.624	MECVI
Hoelter .05 index	193		20	HFIVE
Hoelter .01 index	211		22	HONE