KUESIONER

Responden yth,

Bersama segala kesibukan Bapak/Ibu/Saudara, perkenankan saya memohon kesediaan Bapak/Ibu/Saudara untuk mengisi kuesioner ini. Adapun penelitian ini dilakukan untuk menguji pengaruh kepercayaan merek (*brand trust*) terhadap kesetiaan merek (*brand loyalty*) melalui kepuasan pelanggan (*customer satisfaction*) pada pelanggan *smartphone* Samsung di Surabaya. *Smartphone* Samsung merupakan sebuah gadget dan alat komunikasi jarak jauh yang memiliki kegunaan yang serbaguna.

Akhir kata saya ucapkan terima kasih atas waktu yang disediakan Bapak/Ibu/Saudara untuk mengisi kuesioner ini.

Hormat saya,

Edward Chrystyanto.

I. Persyaratan Menjadi Responden

Beri tanda silang (X) pada jawaban yang menurut Bapak/Ibu/Saudara benar.

A. Apakah Bapak/Ibu/Saudara menggunakan *smartphone* Samsung ?

1. Ya 2. Tidak

B. Apakah Bapak/Ibu/Saudara berdomisili di Surabaya ?

1. Ya 2. Tidak

(jika menjawab 'tidak' mohon tidak melanjutkan pengisian kuesioner)

II. Identifikasi Responden

Pilihlah salah satu dengan memberi tanda cek (X) sesuai dengan keadaan Bapak/Ibu/Saudara.

A. Jenis Kelamin : 1. Laki-Laki 2. Perempuan

B. Usia : 1. 20 tahun – 30 tahun 2. 30 tahun – 40 tahun
3. 40 tahun – 50 tahun 4. 50 tahun keatas.

C. Profesi : 1. Mahasiswa 2. Ibu Rumah tangga
3. Pegawai swasta 4. Wiraswasta
5. Pegawai negeri 6.Lain-lain.....(diisi).

D. Penghasilan per bulan : 1. kurang dari Rp.2 juta 2. Rp.2 juta - Rp.3juta
3. Rp.3 juta - Rp.4 juta 4. Rp.4 juta ke atas.

E. Jumlah *smartphone* Samsung yang Bapak/Ibu/Saudara miliki :

1. Hanya satu buah 2. Lebih dari satu buah.

III. Pertanyaan Variabel Penelitian

Berilah jawaban pertanyaan berikut sesuai dengan pendapat Bapak/Ibu/Saudara, dengan memberi tanda cek (X) pada kolom yang tersedia.

Keterangan :
STS : Sangat Tidak Setuju TS : Tidak Setuju N : Netral
S : Setuju SS : Sangat Setuju

No	Pertanyaan	Skala				
	Brand Trust	**STS**	**TS**	**N**	**S**	**SS**
1	Saya yakin produk *smartphone* Samsung memenuhi kebutuhan saya.					
2	Saya yakin produk *smartphone* Samsung memiliki kegunaan sesuai dengan kebutuhan saya.					
3	Saya yakin produk *smartphone* Samsung mampu memberikan rasa aman (*service, jaminan, dsb.*).					
4	Saya yakin garansi produk *smartphone* Samsung dapat dipercaya.					
Customer Satisfaction		**STS**	**TS**	**N**	**S**	**SS**
1	Harga produk *smartphone* Samsung sesuai dengan kualitas yang diberikan.					
2	Kemampuan produk *smartphone* Samsung sesuai dengan harapan saya (contoh: fitur-fiturnya dan spesifikasi).					
3	Keluhan mengenai produk *smartphone* Samsung direspon dengan cepat.					
4	Jaminan garansi produk *smartphone* Samsung selalu ditepati (contoh: unit cacat).					
5	Reputasi dari *smartphone* Samsung adalah baik.					
6	Informasi tentang produk					

	smartphone Samsung sangat jelas dan mudah didapatkan (contoh: Internet).					
Brand Loyalty		**STS**	**TS**	**N**	**S**	**SS**
1	Saya akan melakukan pembelian produk *smartphone* Samsung dimasa mendatang.					
2	Saya akan merekomendasikan produk *smartphone* Samsungkepada kerabat atau keluarga saya.					
3	Saya berkomitmen untuk selalu membeli dan menggunakan produk *smartphone* Samsung.					
4	Saya bersedia membayar harga lebih tinggi untuk produk *smartphone* Samsung daripada merek lain.					

TERIMA KASIH ATAS PARTISIPASI BAPAK/IBU/SAUDARA

Lampiran 2 Data Penelitian

No	BT1	BT2	BT3	BT4	CS1	CS2	CS3	CS4
1	5	3	4	5	5	3	4	3
2	4	5	3	5	3	4	5	4
3	4	3	5	4	5	5	3	4
4	5	4	3	5	4	3	4	3
5	4	3	4	5	5	4	3	5
6	3	4	3	3	5	5	4	3
7	3	5	4	3	4	3	5	4
8	4	3	5	4	5	4	5	4
9	5	4	3	4	3	5	4	3
10	4	3	5	3	4	4	3	4
11	5	5	3	4	5	3	4	3
12	4	4	3	5	3	4	2	4
13	5	3	3	4	5	3	5	4
14	3	4	4	3	5	5	4	5
15	4	4	3	4	4	3	5	3
16	5	4	4	3	5	4	3	4
17	4	4	3	5	4	5	4	3
18	4	5	3	4	5	4	3	3
19	3	4	4	5	4	5	4	4
20	5	4	3	4	3	4	3	5
21	3	3	4	5	5	3	4	3
22	5	4	3	4	5	4	3	4
23	4	3	4	5	4	3	5	3
24	3	4	4	3	5	4	3	4
25	2	2	3	2	5	3	4	3
26	3	4	4	3	4	3	5	4

Lanjutan lampiran 2

No	BT1	BT2	BT3	BT4	CS1	CS2	CS3	CS4
27	3	3	3	3	3	5	4	5
28	2	3	4	2	5	3	5	3
29	2	2	2	2	4	5	3	4
30	4	4	4	4	5	4	5	3
31	5	5	4	5	4	5	4	3
32	5	4	5	5	4	3	3	4
33	4	5	4	5	3	4	5	4
34	5	4	5	3	4	3	4	3
35	5	4	4	3	3	4	5	3
36	5	5	5	4	4	5	5	3
37	5	4	4	3	5	4	3	4
38	5	5	5	4	4	5	4	5
39	5	3	3	3	5	3	4	3
40	5	4	4	4	4	3	2	3
41	5	5	5	5	5	3	4	3
42	5	4	5	5	3	4	3	4
43	4	4	4	4	4	3	4	5
44	4	3	3	3	3	4	3	4
45	4	5	5	5	4	3	4	2
46	4	5	5	5	3	4	3	3
47	5	4	4	4	4	3	5	4
48	3	3	3	3	3	4	3	3
49	4	4	4	5	2	3	4	4
50	4	5	5	5	3	4	5	5
51	5	5	5	4	4	5	4	5
52	5	3	3	3	3	2	4	2

Lanjutan lampiran 2

No	BT1	BT2	BT3	BT4	CS1	CS2	CS3	CS4
53	5	5	5	4	4	5	3	4
54	5	5	4	5	4	5	4	4
55	5	5	4	4	3	4	3	5
56	3	5	4	5	4	2	4	2
57	4	5	5	4	3	2	3	2
58	5	4	4	4	5	3	3	3
59	4	5	5	5	3	5	4	3
60	3	4	4	4	5	3	4	3
61	4	4	4	4	4	5	3	4
62	3	3	3	4	2	3	4	2
63	3	4	3	3	3	2	3	4
64	2	3	3	3	4	3	4	5
65	2	2	3	2	3	2	1	2
66	4	3	4	5	3	4	3	5
67	4	4	5	4	4	3	5	4
68	5	5	4	4	5	4	3	5
69	3	4	3	3	3	3	5	4
70	5	4	5	5	5	4	3	5
71	3	2	3	4	2	3	1	1
72	3	3	3	3	3	1	2	3
73	2	2	2	2	3	4	5	3
74	3	5	3	4	4	5	3	5
75	1	2	1	2	3	4	5	3
76	3	3	3	3	3	5	4	3
77	3	2	3	4	1	2	3	3
78	5	4	5	4	5	4	5	4

LanjuranLampiran 2

No	BT1	BT2	BT3	BT4	CS1	CS2	CS3	CS4
79	4	4	4	4	4	3	4	5
80	4	3	4	3	3	4	3	3
81	4	2	4	4	2	3	1	2
82	3	3	3	3	2	4	4	2
83	1	3	1	3	3	5	3	4
84	3	3	3	3	3	4	3	5
85	4	4	4	4	4	5	4	3
86	5	5	5	5	5	4	5	4
87	4	4	4	5	3	5	3	5
88	4	5	5	3	4	3	5	4
89	3	2	2	2	2	1	1	1
90	4	3	3	4	4	2	3	2
91	4	3	3	3	3	4	5	4
92	5	4	5	4	4	5	5	5
93	4	3	4	4	5	3	3	3
94	3	4	4	3	4	5	5	5
95	5	4	4	4	5	4	4	4
96	3	4	3	3	3	5	5	5
97	3	2	2	2	4	3	3	3
98	4	3	3	3	3	4	4	4
99	3	2	2	2	2	1	1	1
100	3	4	3	3	4	3	3	3
101	2	3	1	2	3	2	2	2
102	3	2	2	3	4	5	5	5
103	3	2	2	3	3	2	2	2
104	2	3	2	2	4	3	3	3

LanjutanLampiran 2

No	BT1	BT2	BT3	BT4	CS1	CS2	CS3	CS4
105	4	4	3	3	4	4	4	4
106	3	2	2	2	4	4	4	4
107	3	2	2	3	1	1	1	1
108	3	2	3	4	3	3	3	3
109	2	2	1	2	1	1	1	1
110	3	2	3	3	2	2	2	2
111	3	4	4	3	4	4	4	4
112	4	4	4	4	4	4	4	4
113	3	3	4	3	2	2	2	2
114	4	3	4	4	3	3	3	3
115	3	2	2	2	1	1	1	1
116	5	4	5	3	5	5	5	5
117	4	3	4	2	2	2	2	2
118	4	5	3	3	4	4	4	4
119	4	2	4	2	2	2	2	2
120	3	5	4	3	4	4	5	4
121	4	3	4	2	2	2	3	2
122	3	4	5	4	5	5	5	5
123	3	2	4	3	4	4	5	4
124	4	5	3	4	2	3	4	3
125	3	2	4	3	4	2	3	4
126	5	5	4	3	5	4	5	5
127	4	3	5	4	4	3	5	4
128	3	5	4	5	5	4	3	5
129	4	4	3	3	4	4	5	4
130	5	5	5	5	3	3	3	3

LanjutanLampiran 2

No	BT1	BT2	BT3	BT4	CS1	CS2	CS3	CS4
131	3	3	3	3	5	4	5	5
132	4	5	4	3	5	4	5	5
133	3	4	4	2	3	2	3	3
134	4	4	5	4	5	4	3	5
135	4	5	3	4	4	3	5	4
136	3	4	5	3	5	3	4	5
137	4	5	4	3	5	4	5	4
138	5	3	4	4	5	4	5	3
139	3	4	5	3	3	2	3	3
140	4	5	3	4	4	3	4	5
141	3	3	5	3	5	3	3	4
142	4	5	3	4	4	3	2	5
143	3	4	3	2	5	4	3	5
144	4	5	4	4	4	3	4	4
145	5	4	3	3	3	4	2	3
146	3	4	5	4	4	2	3	2
147	5	5	4	3	3	2	3	3
148	3	3	5	4	3	4	4	3
149	4	5	4	3	4	3	4	5
150	5	4	4	5	4	4	3	3

LanjutanLampiran 2

No	CS5	CS6	BL1	BL2	BL3	BL4
1	4	4	4	4	3	3
2	5	5	5	5	4	4
3	3	4	4	4	3	3
4	3	5	5	3	3	4
5	5	4	4	5	4	3
6	3	5	5	3	3	4
7	3	5	4	3	4	4
8	5	4	5	4	3	3
9	3	5	4	5	4	4
10	3	4	5	4	3	3
11	3	5	4	3	4	5
12	2	4	5	4	3	3
13	5	4	4	3	4	5
14	4	5	5	3	5	4
15	5	4	4	5	4	3
16	3	4	5	3	5	4
17	4	5	4	5	4	3
18	3	5	5	3	5	4
19	5	3	4	5	4	3
20	3	4	5	5	5	5
21	5	4	4	4	4	4
22	3	5	4	5	4	5
23	5	4	5	5	4	5
24	3	5	4	4	5	4
25	4	4	5	5	4	5
26	5	3	4	4	5	4

LanjutanLampiran 2

No	CS5	CS6	BL1	BL2	BL3	BL4
27	3	4	5	5	4	5
28	4	5	4	4	5	4
29	4	3	5	5	4	5
30	5	4	4	4	5	4
31	4	3	3	4	5	3
32	5	3	3	4	4	3
33	3	3	4	3	3	4
34	4	3	3	4	4	3
35	3	5	4	4	3	3
36	4	3	3	3	4	3
37	3	3	3	4	4	4
38	4	3	4	3	3	3
39	4	3	3	4	3	4
40	2	3	4	4	4	3
41	3	4	3	3	3	4
42	3	3	4	4	4	3
43	5	3	3	3	4	3
44	3	3	3	4	4	4
45	4	3	3	3	3	3
46	4	2	2	3	4	2
47	5	3	4	3	3	3
48	4	2	2	4	4	2
49	2	3	3	4	3	3
50	5	3	3	3	4	4
51	4	3	4	4	4	3
52	3	3	3	3	3	4

LanjutanLampiran 2

No	CS5	CS6	BL1	BL2	BL3	BL4
53	4	3	4	4	4	3
54	5	3	3	4	3	4
55	4	3	3	3	4	3
56	4	4	5	5	4	4
57	3	4	4	4	4	3
58	3	4	5	5	3	4
59	4	4	5	5	3	3
60	4	4	4	5	4	4
61	4	3	5	4	4	4
62	2	3	4	4	4	4
63	2	2	3	4	3	4
64	3	5	3	4	3	4
65	3	1	2	2	2	2
66	4	5	3	4	4	4
67	5	3	3	4	3	4
68	4	5	4	5	4	5
69	5	3	3	4	3	4
70	4	3	4	5	4	5
71	2	3	2	3	2	3
72	2	1	2	3	2	3
73	4	5	2	3	2	3
74	3	5	4	5	4	5
75	4	3	3	2	1	2
76	4	3	4	5	4	5
77	2	1	1	2	1	2
78	3	5	4	5	4	5

LanjutanLampiran 2

No	CS5	CS6	BL1	BL2	BL3	BL4
79	4	5	3	4	3	4
80	2	3	3	4	3	4
81	3	1	3	4	3	4
82	3	3	4	5	4	5
83	3	5	3	3	3	3
84	4	3	4	4	3	4
85	4	4	3	4	3	4
86	5	3	4	5	4	5
87	4	3	3	4	3	4
88	3	4	4	5	4	5
89	2	3	3	4	3	4
90	3	2	4	4	3	4
91	4	5	3	4	3	4
92	5	3	3	4	3	4
93	4	3	3	4	3	4
94	5	3	3	4	3	4
95	3	4	2	3	2	3
96	4	5	4	5	4	5
97	5	3	3	2	3	2
98	2	4	3	3	4	3
99	3	1	3	4	3	4
100	3	3	4	3	3	3
101	2	2	2	3	2	3
102	5	5	3	4	3	3
103	2	2	2	2	1	2
104	3	3	3	4	3	4

LanjutanLampiran 2

No	CS5	CS6	BL1	BL2	BL3	BL4
105	4	4	2	3	2	3
106	4	4	3	4	3	4
107	1	1	2	2	2	2
108	3	3	4	5	4	5
109	1	1	1	2	1	2
110	2	2	3	4	3	4
111	4	4	3	4	3	4
112	4	4	3	4	3	4
113	2	2	3	4	3	4
114	3	3	3	4	3	4
115	1	1	2	3	2	3
116	5	5	3	4	3	4
117	2	2	2	3	2	3
118	4	4	3	4	3	2
119	2	2	2	3	2	3
120	4	5	3	5	4	5
121	2	3	3	2	4	2
122	5	5	4	5	4	5
123	4	5	4	3	4	3
124	2	4	3	4	3	4
125	2	3	3	2	3	2
126	3	4	4	4	3	4
127	5	5	5	3	4	3
128	4	5	5	4	5	4
129	4	5	4	3	3	3
130	3	3	5	5	4	5

LanjutanLampiran 2

No	CS5	CS6	BL1	BL2	BL3	BL4
131	4	5	4	3	3	3
132	4	5	3	4	3	4
133	2	3	2	3	2	3
134	4	5	4	4	5	4
135	3	4	5	4	4	4
136	4	5	3	4	3	4
137	3	5	5	4	3	4
138	5	5	4	5	4	5
139	2	3	3	3	2	3
140	3	2	4	3	5	3
141	3	4	3	2	3	2
142	3	4	5	4	3	4
143	5	5	2	2	2	2
144	3	4	4	4	4	4
145	2	4	3	4	3	4
146	4	3	5	4	3	4
147	2	3	4	3	4	3
148	3	5	5	4	3	4
149	3	3	3	4	3	4
150	3	5	5	4	5	4

Lampiran 3

Karakteristik Responden Berdasarkan Jenis Kelamin

No	JenisKelamin	Jumlah	Persentase (%)
1.	Pria	93	62
2.	Wanita	57	38
Total		150	100 %

Karakteristik Responden Berdasarkan Usia

No	Usia	Frekuensi	Persentase(%)
1.	20 tahun - 30tahun	112	74,6
2.	30 tahun - 40tahun	21	15,3
3.	40 tahun - 50tahun	12	8
4.	50 tahunke atas.	3	2
Total		150	100%

Karakteristik Responden Berdasarkan Profesi

No	Profesi	Frekuensi	Persentase (%)
1	Mahasiswa	96	64
2	Ibu Rumah Tangga	6	4
3	Pegawai Swasta	22	14,6
4	Pegawai Negeri	2	1,3
5	Wiraswasta	24	16
6	Lain - lain	0	0
Total		150	100%

Karakteristik Responden Berdasarkan Pendapatan

No	Pendapatan	Frekuensi	Persentase (%)
1	KurangdariRp. 2 juta	10	6,6
2	Rp.2 juta – Rp. 3 juta	79	52,6
3	Rp. 3 juta - Rp. 4 juta	41	27,3
4	Rp. 4 juta ke atas.	20	13,3
Total		150	100%

Karakteristik Responden Berdasarkan Jumlah *smartphone* Samsung

No	Jumlah *smartphone* Samsung	Frekuensi	Persentase (%)
1	Hanya satu buah	117	78
2	Lebih satu buah	33	22
Total		150	100%

Lampiran 4 Statistik Deskriptif

Descriptive Statistics

	N	Minimum	Maximum	Mean	Std. Deviation
BT1	150	1,00	5,00	3,7733	,94937
BT2	150	2,00	5,00	3,7000	1,00168
BT3	150	1,00	5,00	3,6733	,97964
BT4	150	2,00	5,00	3,5800	,93601
BT	150	1,50	5,00	3,6817	,76352
CS1	150	1,00	5,00	3,7333	1,02758
CS2	150	1,00	5,00	3,5000	1,05392
CS3	150	1,00	5,00	3,6200	1,10320
CS4	150	1,00	5,00	3,5600	1,07741
CS5	150	1,00	5,00	3,4800	1,02793
CS6	150	1,00	5,00	3,6000	1,11728
CS	150	1,00	5,00	3,5823	,81787
CL1	150	1,00	5,00	3,5600	,95172
CL2	150	2,00	5,00	3,7933	,84581
CL3	150	1,00	5,00	3,4000	,87470
CL4	150	2,00	5,00	3,6467	,84454
CL	150	1,50	5,00	3,6000	,70829

Lampiran 5 **Uji Validitas**

Indikator	Standardized Loading	Cut Off	Keterangan
Brand Trust			
BT1	0.70	> 0,7	Valid
BT2	0.72	> 0,7	Valid
BT3	0.70	> 0,7	Valid
BT4	0.71	> 0,7	Valid
Customer Satisfaction			
SQ1	0.71	> 0,7	Valid
SQ2	0.71	> 0,7	Valid
SQ3	0.72	> 0,7	Valid
SQ4	0.71	> 0,7	Valid
SQ5	0.70	> 0,7	Valid
SQ6	0.71	> 0,7	Valid
Brand Loyalty			
BL1	0.73	> 0,7	Valid
BL2	0.75	> 0,7	Valid
BL3	0.72	> 0,7	Valid
BL4	0.71	> 0,7	Valid

Lampiran 6 **Uji Relibilitas**

Indikator	λ	λ^2	e_i	Σλ	$(\Sigma\lambda)^2$	$\Sigma(\lambda^2)$	Σe_i	CR
Brand Trust				2.83	8.01	2.00	2.00	0.80
BT1	0.70	0.49	0.51					
BT2	0.72	0.52	0.48					
BT3	0.70	0.49	0.51					
BT4	0.71	0.50	0.50					
Customer Satisfaction				4.26	18.15	3.02	2.98	0.86
SQ1	0.71	0.50	0.50					
SQ2	0.71	0.50	0.50					
SQ3	0.72	0.52	0.48					
SQ4	0.71	0.50	0.50					
SQ5	0.70	0.49	0.51					
SQ6	0.71	0.50	0.50					
Brand Loyalty				2.91	8.47	2.12	1.88	0.82
BL1	0.73	0.53	0.47					
BL2	0.75	0.56	0.44					
BL3	0.72	0.52	0.48					
BL4	0.71	0.50	0.50					

Lampiran 7 Normalitas

DATE: 11/01/2014
TIME: 02:17

P R E L I S 2.80

BY

Karl G. Jöreskog& Dag Sörbom

The following lines were read from file G:\Edward\Input.PR2:

```
!PRELIS SYNTAX: Can be edited
SY='G:\Edward\Input.PSF'
NS 1 2 3 4 5 6 7 8 9 10 11 12 13 14
OU MA=CM XT
```

Total Sample Size = 150

Univariate Summary Statistics for Continuous Variables

Variable	Mean	St. Dev.	T-Value	Skewness	Kurtosis	Minimum	Freq.	Maximum	Freq.
BT1	3.773	0.949	48.678	-0.224	-0.522	1.177	2	5.036	39
BT2	3.700	1.002	45.240	-0.129	-0.924	2.028	22	5.066	37
BT3	3.673	0.980	45.924	-0.189	-0.444	1.277	4	5.086	32
BT4	3.580	0.936	46.844	-0.049	-0.723	1.949	19	5.010	28
CS1	3.733	1.028	44.496	-0.256	-0.556	1.217	4	5.091	39
CS2	3.500	1.054	40.673	-0.152	-0.466	1.120	6	5.110	27
CS3	3.620	1.103	40.188	-0.215	-0.643	1.245	8	5.094	38
CS4	3.560	1.077	40.468	-0.190	-0.555	1.121	6	5.084	33
CS5	3.480	1.028	41.463	-0.128	-0.480	0.869	3	5.052	27
CS6	3.600	1.117	39.463	-0.220	-0.657	1.185	8	5.062	40
BL1	3.560	0.952	45.813	-0.125	-0.387	0.982	2	5.024	27
BL2	3.793	0.846	54.928	-0.147	-0.484	2.073	11	5.062	30
BL3	3.400	0.875	47.606	-0.068	-0.059	1.251	4	5.092	13
BL4	3.647	0.845	52.884	-0.075	-0.439	2.034	14	5.060	22

Test of Univariate Normality for Continuous Variables

	Skewness		Kurtosis		Skewness and Kurtosis	
Variable	Z-Score	P-Value	Z-Score	P-Value	Chi-Square	P-Value
BT1	-1.144	0.253	-1.647	0.100	4.020	0.134
BT2	-0.663	0.507	-1.899	0.061	5.072	0.091
BT3	-0.969	0.332	-1.303	0.193	2.638	0.267
BT4	-0.251	0.802	-1.711	0.087	5.410	0.075
CS1	-1.308	0.191	-1.804	0.076	4.963	0.084
CS2	-0.783	0.434	-1.397	0.163	2.563	0.278
CS3	-1.103	0.270	-1.748	0.085	5.269	0.084
CS4	-0.975	0.329	-1.798	0.072	4.184	0.123
CS5	-0.661	0.508	-1.456	0.145	2.557	0.278
CS6	-1.129	0.259	-1.823	0.071	5.670	0.066
BL1	-0.643	0.520	-1.076	0.282	1.571	0.456
BL2	-0.757	0.449	-1.474	0.140	2.745	0.253
BL3	-0.350	0.727	0.003	0.997	0.122	0.941
BL4	-0.386	0.700	-1.283	0.200	1.794	0.408

Relative Multivariate Kurtosis = 0.967

Test of Multivariate Normality for Continuous Variables

Skewness Kurtosis Skewness and Kurtosis

Value Z-Score P-Value Value Z-Score P-Value Chi-Square P-Value
------ ------- ------- ------- ------- ------- ---------- -------
6.598 1.928 0.053 6.627 -1.325 0.185 5.623 0.065

Histograms for Continuous Variables

BT1
Frequency Percentage Lower Class Limit
2 1.3 1.177 •
0 0.0 1.563
9 6.0 1.948 • • • • • •
0 0.0 2.334
49 32.7 2.720
• •
0 0.0 3.106
0 0.0 3.492
51 34.0 3.878
• •
0 0.0 4.264
39 26.0 4.650
• •

BT2
Frequency Percentage Lower Class Limit
22 14.7 2.028 • • • • • • • • • • • • • • •
0 0.0 2.332
0 0.0 2.636
38 25.3 2.939
• •
0 0.0 3.243
0 0.0 3.547
53 35.3 3.851
• •
0 0.0 4.154

0 0.0 4.458
37 24.7 4.762
• •

BT3
Frequency Percentage Lower Class Limit
4 2.7 1.277 • •
0 0.0 1.658
11 7.3 2.039 • • • • • • •
0 0.0 2.419
47 31.3 2.800
• •
0 0.0 3.181
0 0.0 3.562
56 37.3 3.943
• •
0 0.0 4.324
32 21.3 4.705 •

BT4
Frequency Percentage Lower Class Limit
19 12.7 1.949 • • • • • • • • • • • • •
0 0.0 2.255
0 0.0 2.561
53 35.3 2.867
• •
0 0.0 3.173
0 0.0 3.479
50 33.3 3.785
• •
0 0.0 4.092
0 0.0 4.398
28 18.7 4.704 •

CS1
Frequency Percentage Lower Class Limit
4 2.7 1.217 • •
0 0.0 1.604
13 8.7 1.991 • • • • • • • • •

0 0.0 2.379
41 27.3 2.766
• •
0 0.0 3.154
53 35.3 3.541
• •
0 0.0 3.928
0 0.0 4.316
39 26.0 4.703
• •

CS2
Frequency Percentage Lower Class Limit
6 4.0 1.120 • • • •
0 0.0 1.519
19 12.7 1.918 • • • • • • • • • • • • •
0 0.0 2.317
46 30.7 2.716
• •
0 0.0 3.115
0 0.0 3.514
52 34.7 3.913
• •
0 0.0 4.312
27 18.0 4.711 • • • • • • • • • • • • • • • • • • •

CS3
Frequency Percentage Lower Class Limit
8 5.3 1.245 • • • • • •
0 0.0 1.630
11 7.3 2.015 • • • • • • • •
0 0.0 2.400
49 32.7 2.784
• •
0 0.0 3.169
44 29.3 3.554
• •
0 0.0 3.939
0 0.0 4.324
38 25.3 4.709
• •

CS4

Frequency	Percentage	Lower Class Limit	
6	4.0	1.121	• • • •
0	0.0	1.517	
17	11.3	1.913	• • • • • • • • • • • • •
0	0.0	2.310	
47	31.3	2.706	• •
0	0.0	3.102	
0	0.0	3.499	
47	31.3	3.895	• •
0	0.0	4.291	
33	22.0	4.688	• •

CS5

Frequency	Percentage	Lower Class Limit	
3	2.0	0.869	• •
0	0.0	1.287	
24	16.0	1.706	• • • • • • • • • • • • • • • • • • •
0	0.0	2.124	
0	0.0	2.542	
48	32.0	2.961	• •
0	0.0	3.379	
48	32.0	3.797	• •
0	0.0	4.216	
27	18.0	4.634	• •

CS6

Frequency	Percentage	Lower Class Limit	
8	5.3	1.185	• • • • •
0	0.0	1.573	
11	7.3	1.961	• • • • • • •
0	0.0	2.348	
54	36.0	2.736	• •
0	0.0	3.124	

0 0.0 3.511
37 24.7 3.899
• •
0 0.0 4.286
40 26.7 4.674
• •

BL1
Frequency Percentage Lower Class Limit
2 1.3 0.982 •
0 0.0 1.386
16 10.7 1.791 • • • • • • • • • • •
0 0.0 2.195
0 0.0 2.599
55 36.7 3.003
• •
0 0.0 3.407
50 33.3 3.812
• •
0 0.0 4.216
27 18.0 4.620 • • • • • • • • • • • • • • • • • •

BL2
Frequency Percentage Lower Class Limit
11 7.3 2.073 • • • • •
0 0.0 2.372
0 0.0 2.671
39 26.0 2.970 •
0 0.0 3.269
0 0.0 3.568
70 46.7 3.867
• •
0 0.0 4.166
0 0.0 4.465
30 20.0 4.763 • • • • • • • • • • • • • • • •

BL3
Frequency Percentage Lower Class Limit
4 2.7 1.251 • •
0 0.0 1.635
14 9.3 2.019 • • • • • • • •

0 0.0 2.403

63 42.0 2.788

• •

0 0.0 3.172

0 0.0 3.556

56 37.3 3.940

• •

0 0.0 4.324

13 8.7 4.708 • • • • • • •

BL4

Frequency Percentage Lower Class Limit

14 9.3 2.034 • • • • • • •

0 0.0 2.336

0 0.0 2.639

47 31.3 2.942

• •

0 0.0 3.244

0 0.0 3.547

67 44.7 3.849

• •

0 0.0 4.152

0 0.0 4.455

22 14.7 4.757 • • • • • • • • • • • •

Covariance Matrix

	BT1	BT2	BT3	BT4	CS1	CS2
	--------	--------	--------	--------	--------	--------
BT1	0.901					
BT2	0.465	1.003				
BT3	0.454	0.462	0.960			
BT4	0.457	0.460	0.440	0.876		
CS1	0.255	0.336	0.354	0.187	1.056	
CS2	0.192	0.325	0.208	0.274	0.392	1.111
CS3	0.147	0.374	0.274	0.173	0.474	0.495
CS4	0.178	0.425	0.287	0.212	0.522	0.661
CS5	0.129	0.209	0.301	0.293	0.560	0.524
CS6	0.102	0.322	0.142	0.159	0.643	0.571
BL1	0.185	0.307	0.226	0.330	0.403	0.324

BL2	0.138	0.188	0.154	0.268	0.183	0.313
BL3	0.226	0.338	0.249	0.292	0.339	0.314
BL4	0.121	0.169	0.076	0.138	0.236	0.199

Covariance Matrix

	CS3	CS4	CS5	CS6	BL1	BL2
CS3	1.217					
CS4	0.508	1.161				
CS5	0.706	0.528	1.057			
CS6	0.653	0.558	0.394	1.248		
BL1	0.302	0.249	0.242	0.505	0.906	
BL2	0.205	0.181	0.253	0.274	0.398	0.715
BL3	0.245	0.282	0.295	0.349	0.494	0.336
BL4	0.243	0.199	0.154	0.314	0.379	0.499

Covariance Matrix

	BL3	BL4
BL3	0.765	
BL4	0.320	0.713

Means

BT1	BT2	BT3	BT4	CS1	CS2
3.773	3.700	3.673	3.580	3.733	3.500

Means

CS3	CS4	CS5	CS6	BL1	BL2
3.620	3.560	3.480	3.600	3.560	3.793

Means

BL3	BL4
3.400	3.647

Standard Deviations

BT1	BT2	BT3	BT4	CS1	CS2
0.949	1.002	0.980	0.936	1.028	1.054

Standard Deviations

CS3	CS4	CS5	CS6	BL1	BL2
1.103	1.077	1.028	1.117	0.952	0.846

Standard Deviations

BL3	BL4
0.875	0.845

The Problem used 23400 Bytes (= 0.0% of available workspace)

Lampiran 8 *Output* SEM

DATE: 11/ 1/2014
TIME: 2:15

L I S R E L 8.80

BY

Karl G. Jöreskog& Dag Sörbom

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Lincolnwood, IL 60712, U.S.A.

The following lines were read from file G:\Edward\Output.SPJ:

Raw Data from file 'G:\Edward\Input.psf'
Sample Size = 150
Latent Variables CS BL BT
Relationships
CS1 = CS
CS2 = CS
CS3 = CS
CS4 = CS
CS5 = CS
CS6 = CS
BL1 = BL
BL2 = BL
BL3 = BL
BL4 = BL
BT1 = BT
BT2 = BT
BT3 = BT
BT4 = BT
BL = CS
CS = BT
BL = BT
Path Diagram
Options: all
End of Problem

Sample Size = 150

Covariance Matrix

CS1	CS2	CS3	CS4	CS5	CS6
---	---	---	---	---	---

CS1	1.06					
CS2	0.44	1.11				
CS3	0.52	0.54	1.22			
CS4	0.56	0.69	0.56	1.16		
CS5	0.59	0.54	0.71	0.53	1.06	
CS6	0.66	0.61	0.69	0.58	0.41	1.25
BL1	0.42	0.34	0.32	0.26	0.24	0.52
BL2	0.19	0.32	0.22	0.19	0.25	0.29
BL3	0.36	0.34	0.27	0.30	0.30	0.37
BL4	0.23	0.20	0.25	0.20	0.15	0.32
BT1	0.25	0.20	0.16	0.19	0.12	0.12
BT2	0.37	0.35	0.40	0.44	0.22	0.35
BT3	0.37	0.22	0.30	0.30	0.30	0.17
BT4	0.20	0.28	0.19	0.21	0.29	0.17

Covariance Matrix

BL1	BL2	BL3	BL4	BT1	BT2
BL1	0.91				
BL2	0.40	0.72			
BL3	0.51	0.35	0.77		
BL4	0.38	0.50	0.33	0.71	
BT1	0.19	0.15	0.24	0.12	0.90	
BT2	0.31	0.20	0.35	0.18	0.48	1.00
BT3	0.24	0.17	0.28	0.09	0.48	0.48
BT4	0.33	0.27	0.30	0.14	0.46	0.46

Covariance Matrix

BT3	BT4
BT3	0.96	
BT4	0.45	0.88

Initial Estimates (TSLS)

Measurement Equations

CS1 = 1.00*CS, Errorvar.= 0.33, R^2 = 0.69

CS2 = 0.82*CS, Errorvar.= 0.62, R^2 = 0.44

CS3 = 1.04*CS, Errorvar.= 0.43, R^2 = 0.64

CS4 = 0.85*CS, Errorvar.= 0.63, R^2 = 0.46

CS5 = 0.75*CS, Errorvar.= 0.64, R^2 = 0.39

CS6 = 0.82*CS, Errorvar.= 0.75, R^2 = 0.40

BL1 = 1.00*BL, Errorvar.= 0.32, R^2 = 0.65

BL2 = 0.77*BL, Errorvar.= 0.37, R^2 = 0.49

BL3 = 0.82*BL, Errorvar.= 0.37, R^2 = 0.52

BL4 = 0.74*BL, Errorvar.= 0.39, R^2 = 0.45

BT1 = 0.71*BT, Errorvar.= 0.40, R^2 = 0.56

BT2 = 0.71*BT, Errorvar.= 0.50, R^2 = 0.50

BT3 = 0.65*BT, Errorvar.= 0.53, R^2 = 0.45

BT4 = 0.66*BT, Errorvar.= 0.44, R^2 = 0.49

Structural Equations

CS = 0.35*BT, Errorvar.= 0.61, R^2 = 0.17

BL = 0.45*CS + 0.17*BT, Errorvar.= 0.36, R^2 = 0.39

Reduced Form Equations

CS = 0.35*BT, Errorvar.= 0.61, R^2 = 0.17

BL = 0.33*BT, Errorvar.= 0.48, R^2 = 0.18

Correlation Matrix of Independent Variables

BT
1.00

Covariance Matrix of Latent Variables

	CS	BL	BT
CS	0.73		
BL	0.39	0.59	
BT	0.35	0.33	1.00

Behavior under Minimization Iterations

Iter	Try	Abscissa	Slope	Function
1	0	0.00000000D+00	-0.31644896D+00	0.81232639D+00
1		0.10000000D+01	0.59600568D-01	0.70338772D+00
2		0.84150873D+00	0.10213789D-01	0.69787211D+00
2	0	0.00000000D+00	-0.85231172D-02	0.69787211D+00
1		0.84150873D+00	-0.61923373D-03	0.69408750D+00
3	0	0.00000000D+00	-0.20784848D-02	0.69408750D+00
1		0.84150873D+00	-0.73934579D-03	0.69289721D+00
2		0.16830175D+01	0.67647155D-03	0.69286463D+00
3		0.12809481D+01	-0.10912710D-04	0.69273155D+00
4	0	0.00000000D+00	-0.41075127D-03	0.69273155D+00
1		0.12809481D+01	-0.11731524D-03	0.69239429D+00
2		0.25618963D+01	0.16761285D-03	0.69242737D+00
3		0.18083610D+01	0.97784380D-06	0.69236367D+00
5	0	0.00000000D+00	-0.82187641D-04	0.69236367D+00

1 0.18083610D+01 0.43383962D-05 0.69229351D+00

6 0 0.00000000D+00 -0.10923610D-04 0.69229351D+00
1 0.18083610D+01 0.60048918D-05 0.69228906D+00
2 0.11668977D+01 -0.13360499D-08 0.69228713D+00

7 0 0.00000000D+00 -0.13274893D-05 0.69228713D+00
1 0.11668977D+01 -0.35180316D-06 0.69228615D+00
2 0.23337955D+01 0.62457002D-06 0.69228631D+00
3 0.15873500D+01 -0.79345193D-10 0.69228608D+00

8 0 0.00000000D+00 -0.20963500D-06 0.69228608D+00
1 0.15873500D+01 0.67216371D-09 0.69228591D+00

9 0 0.00000000D+00 -0.37079598D-07 0.69228591D+00
1 0.15873500D+01 -0.14723743D-08 0.69228588D+00

10 0 0.00000000D+00 -0.54070860D-08 0.69228588D+00
1 0.15873500D+01 0.26188000D-08 0.69228588D+00
2 0.10694069D+01 -0.18662747D-13 0.69228588D+00

11 0 0.00000000D+00 -0.28310598D-09 0.69228588D+00
1 0.10694069D+01 -0.37742476D-10 0.69228588D+00
2 0.21388138D+01 0.20762129D-09 0.69228588D+00
3 0.12339058D+01 -0.17080820D-16 0.69228588D+00

12 0 0.00000000D+00 -0.12061226D-10 0.69228588D+00
1 0.12339058D+01 0.34841745D-11 0.69228588D+00
2 0.95735177D+00 0.73300827D-17 0.69228588D+00

Number of Iterations = 12

LISREL Estimates (Maximum Likelihood)

Measurement Equations

CS1 = 0.73*CS, Errorvar.= 0.52 , R^2 = 0.51
(0.071)
7.27

CS2 = 0.74*CS, Errorvar.= 0.56 , R^2 = 0.50
(0.094) (0.076)
7.88 7.32

CS3 = 0.79*CS, Errorvar.= 0.59 , R^2 = 0.52
(0.099) (0.081)
8.01 7.21

CS4 = 0.77*CS, Errorvar.= 0.57 , R^2 = 0.51
(0.097) (0.079)
7.93 7.28

CS5 = 0.72*CS, Errorvar.= 0.54 , R^2 = 0.49
(0.092) (0.073)
7.84 7.35

CS6 = 0.79*CS, Errorvar.= 0.62 , R^2 = 0.50
(0.10) (0.085)
7.90 7.30

BL1 = 0.70*BL, Errorvar.= 0.42 , R^2 = 0.54
(0.063)
6.60

BL2 = 0.63*BL, Errorvar.= 0.31 , R^2 = 0.56
(0.078) (0.049)
8.14 6.41

BL3 = 0.63*BL, Errorvar.= 0.37 , R^2 = 0.52
(0.080) (0.054)
7.89 6.74

BL4 = 0.60*BL, Errorvar.= 0.35 , R^2 = 0.51
(0.077) (0.051)
7.82 6.82

BT1 = 0.66*BT, Errorvar.= 0.46 , R^2 = 0.48
(0.075) (0.069)
8.78 6.71

BT2 = 0.72*BT, Errorvar.= 0.48 , R^2 = 0.52
(0.079) (0.075)
9.18 6.42

BT3 = 0.68*BT, Errorvar.= 0.50 , R^2 = 0.48
(0.078) (0.074)
8.77 6.72

BT4 = 0.66*BT, Errorvar.= 0.44 , R^2 = 0.50
(0.074) (0.066)
8.99 6.57

Structural Equations

CS = 0.50*BT, Errorvar.= 0.75 , R^2 = 0.25
(0.10) (0.17)
4.93 4.51

BL = 0.44*CS + 0.29*BT, Errorvar.= 0.60 , R^2 = 0.40
(0.11) (0.11) (0.14)
3.91 2.70 4.38

Reduced Form Equations

CS = 0.50*BT, Errorvar.= 0.75, R^2 = 0.25
(0.10)
4.93

BL = 0.51*BT, Errorvar.= 0.74, R^2 = 0.26
(0.10)
4.94

Correlation Matrix of Independent Variables

BT

1.00

Covariance Matrix of Latent Variables

	CS	BL	BT
CS	1.00		
BL	0.58	1.00	
BT	0.50	0.51	1.00

Goodness of Fit Statistics

Degrees of Freedom = 74
Minimum Fit Function Chi-Square = 206.30 (P = 0.00)
Normal Theory Weighted Least Squares Chi-Square = 182.01 (P = 0.00)
Estimated Non-centrality Parameter (NCP) = 108.01
90 Percent Confidence Interval for NCP = (72.18 ; 151.53)

Minimum Fit Function Value = 1.38
Population Discrepancy Function Value (F0) = 0.72
90 Percent Confidence Interval for F0 = (0.48 ; 1.02)
Root Mean Square Error of Approximation (RMSEA) = 0.069
90 Percent Confidence Interval for RMSEA = (0.061 ; 0.082)
P-Value for Test of Close Fit (RMSEA < 0.05) = 0.00

Expected Cross-Validation Index (ECVI) = 1.64
90 Percent Confidence Interval for ECVI = (1.40 ; 1.93)
ECVI for Saturated Model = 3.41
ECVI for Independence Model = 12.47

Chi-Square for Independence Model with 91 Degrees of Freedom = 1829.45
Independence AIC = 1857.45
Model AIC = 244.01
Saturated AIC = 1210.00
Independence CAIC = 1913.59
Model CAIC = 368.34
Saturated CAIC = 1631.12

Normed Fit Index (NFI) = 0.94

Non-Normed Fit Index (NNFI) = 0.96
Parsimony Normed Fit Index (PNFI) = 0.72
Comparative Fit Index (CFI) = 0.97
Incremental Fit Index (IFI) = 0.97
Relative Fit Index (RFI) = 0.96

Critical N (CN) = 76.98
Root Mean Square Residual (RMR) = 0.068
Standardized RMR = 0.070
Goodness of Fit Index (GFI) = 0.95
Adjusted Goodness of Fit Index (AGFI) = 0.94
Parsimony Goodness of Fit Index (PGFI) = 0.70

Fitted Covariance Matrix

CS1	CS2	CS3	CS4	CS5	CS6	
CS1	1.06					
CS2	0.55	1.11				
CS3	0.58	0.59	1.22			
CS4	0.56	0.57	0.61	1.16		
CS5	0.53	0.54	0.57	0.55	1.06	
CS6	0.58	0.59	0.63	0.61	0.57	1.25
BL1	0.30	0.30	0.32	0.31	0.29	0.32
BL2	0.27	0.27	0.29	0.28	0.27	0.29
BL3	0.27	0.27	0.29	0.28	0.27	0.29
BL4	0.26	0.26	0.28	0.27	0.25	0.28
BT1	0.24	0.25	0.26	0.25	0.24	0.26
BT2	0.26	0.27	0.29	0.28	0.26	0.29
BT3	0.25	0.25	0.27	0.26	0.25	0.27
BT4	0.24	0.25	0.26	0.25	0.24	0.26

Fitted Covariance Matrix

BL1	BL2	BL3	BL4	BT1	BT2
BL1	0.91				
BL2	0.44	0.72			
BL3	0.44	0.40	0.77		
BL4	0.42	0.38	0.38	0.71	
BT1	0.23	0.21	0.21	0.20	0.90

BT2	0.26	0.23	0.23	0.22	0.48	1.00
BT3	0.24	0.22	0.22	0.21	0.45	0.49
BT4	0.23	0.21	0.21	0.20	0.44	0.48

Fitted Covariance Matrix

	BT3	BT4
BT3	0.96	
BT4	0.45	0.88

Fitted Residuals

	CS1	CS2	CS3	CS4	CS5	CS6
CS1	0.00					
CS2	-0.11	0.00				
CS3	-0.06	-0.05	0.00			
CS4	0.00	0.12	-0.05	0.00		
CS5	0.06	0.01	0.13	-0.02	0.00	
CS6	0.08	0.02	0.06	-0.03	-0.16	0.00
BL1	0.12	0.03	0.00	-0.05	-0.05	0.20
BL2	-0.08	0.04	-0.08	-0.09	-0.01	-0.01
BL3	0.09	0.06	-0.02	0.02	0.04	0.08
BL4	-0.02	-0.06	-0.03	-0.07	-0.10	0.04
BT1	0.01	-0.04	-0.10	-0.06	-0.12	-0.14
BT2	0.11	0.08	0.12	0.17	-0.04	0.06
BT3	0.12	-0.03	0.03	0.04	0.05	-0.10
BT4	-0.05	0.03	-0.07	-0.04	0.05	-0.10

Fitted Residuals

	BL1	BL2	BL3	BL4	BT1	BT2
BL1	0.00					
BL2	-0.04	0.00				
BL3	0.06	-0.05	0.00			
BL4	-0.04	0.11	-0.05	0.00		
BT1	-0.05	-0.06	0.03	-0.08	0.00	
BT2	0.05	-0.03	0.12	-0.05	0.00	0.00
BT3	0.00	-0.05	0.06	-0.12	0.03	-0.01

BT4 0.10 0.06 0.08 -0.06 0.02 -0.02

Fitted Residuals

	BT3	BT4
BT3	0.00	
BT4	-0.01	0.00

Summary Statistics for Fitted Residuals

Smallest Fitted Residual = -0.16
Median Fitted Residual = 0.00
Largest Fitted Residual = 0.20

Stemleaf Plot

-16|4
-14|4
-12|
-10|65930
- 8|9621
- 6|7640554
- 4|96421008766544411
- 2|531632
- 0|984276322100000000000000
0|637
2|23578238
4|345134568
6|124578
8|4476
10|5568
12|0114
14|
16|8
18|9

Standardized Residuals

CS1 CS2 CS3 CS4 CS5 CS6

CS1	- -				
CS2	-3.09	- -			
CS3	-1.66	-1.35	- -		
CS4	-0.05	3.26	-1.38	- -	
CS5	1.62	0.17	3.66	-0.52	- -
CS6	2.28	0.56	1.47	-0.66	-4.30	- -
BL1	2.28	0.61	-0.01	-0.89	-1.00	3.43
BL2	-1.65	0.93	-1.53	-1.88	-0.25	-0.11
BL3	1.75	1.22	-0.33	0.32	0.76	1.45
BL4	-0.48	-1.13	-0.60	-1.38	-2.11	0.82
BT1	0.23	-0.75	-1.64	-1.08	-2.00	-2.31
BT2	1.79	1.27	1.85	2.72	-0.70	0.99
BT3	2.03	-0.57	0.44	0.72	0.89	-1.53
BT4	-0.84	0.56	-1.25	-0.75	0.91	-1.57

Standardized Residuals

BL1	BL2	BL3	BL4	BT1	BT2
BL1	- -				
BL2	-2.38	- -			
BL3	3.06	-2.72	- -		
BL4	-1.96	6.51	-2.53	- -	
BT1	-0.91	-1.46	0.58	-1.77	- -	
BT2	1.05	-0.72	2.44	-0.97	-0.10	- -
BT3	-0.06	-0.99	1.26	-2.46	0.96	-0.54
BT4	1.95	1.29	1.84	-1.43	0.93	-0.96

Standardized Residuals

BT3	BT4
BT3	- -
BT4	-0.26	- -

Summary Statistics for Standardized Residuals

Smallest Standardized Residual = -4.30
Median Standardized Residual = 0.00
Largest Standardized Residual = 6.51

Stemleaf Plot

- 4|3
- 3|1
- 2|75543100
- 1|98776655544443110000
- 0|998877776655533211110000000000000000
0|223466667889999
1|000233355688889
2|03347
3|1347
4|
5|
6|5

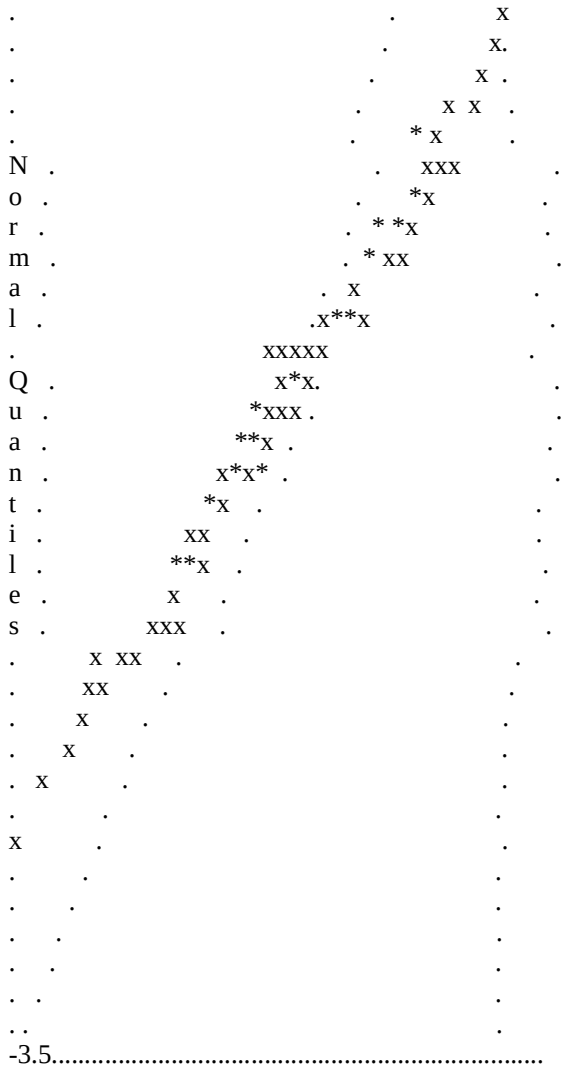
Largest Negative Standardized Residuals

Residual for	CS2 and	CS1	-3.09
Residual for	CS6 and	CS5	-4.30
Residual for	BL3 and	BL2	-2.72

Largest Positive Standardized Residuals

Residual for	CS4 and	CS2	3.26
Residual for	CS5 and	CS3	3.66
Residual for	BL1 and	CS6	3.43
Residual for	BL3 and	BL1	3.06
Residual for	BL4 and	BL2	6.51
Residual for	BT2 and	CS4	2.72

Qplot of Standardized Residuals



The Modification Indices Suggest to Add an Error Covariance

Between	and	Decrease in Chi-Square	New Estimate
CS2	CS1	9.6	-0.17

CS4	CS2	10.6	0.19
CS5	CS3	13.4	0.21
CS6	CS5	18.5	-0.25
BL1	CS6	9.6	0.16
BL3	BL1	9.4	0.15
BL4	BL2	42.3	0.27

Covariance Matrix of Parameter Estimates

	LY 2_1	LY 3_1	LY 4_1	LY 5_1	LY 6_1	LY 8_2
LY 2_1	0.01					
LY 3_1	0.00	0.01				
LY 4_1	0.00	0.00	0.01			
LY 5_1	0.00	0.00	0.00	0.01		
LY 6_1	0.00	0.00	0.00	0.00	0.01	
LY 8_2	0.00	0.00	0.00	0.00	0.00	0.01
LY 9_2	0.00	0.00	0.00	0.00	0.00	0.00
LY 10_2	0.00	0.00	0.00	0.00	0.00	0.00
LX 1_1	0.00	0.00	0.00	0.00	0.00	0.00
LX 2_1	0.00	0.00	0.00	0.00	0.00	0.00
LX 3_1	0.00	0.00	0.00	0.00	0.00	0.00
LX 4_1	0.00	0.00	0.00	0.00	0.00	0.00
BE 2_1	0.00	0.00	0.00	0.00	0.00	0.00
GA 1_1	0.00	0.00	0.00	0.00	0.00	0.00
GA 2_1	0.00	0.00	0.00	0.00	0.00	0.00
PS 1_1	-0.01	-0.01	-0.01	-0.01	-0.01	0.00
PS 2_2	0.00	0.00	0.00	0.00	0.00	-0.01
TE 1_1	0.00	0.00	0.00	0.00	0.00	0.00
TE 2_2	0.00	0.00	0.00	0.00	0.00	0.00
TE 3_3	0.00	0.00	0.00	0.00	0.00	0.00
TE 4_4	0.00	0.00	0.00	0.00	0.00	0.00
TE 5_5	0.00	0.00	0.00	0.00	0.00	0.00
TE 6_6	0.00	0.00	0.00	0.00	0.00	0.00
TE 7_7	0.00	0.00	0.00	0.00	0.00	0.00
TE 8_8	0.00	0.00	0.00	0.00	0.00	0.00
TE 9_9	0.00	0.00	0.00	0.00	0.00	0.00
TE 10_10	0.00	0.00	0.00	0.00	0.00	0.00

TD 1_1	0.00	0.00	0.00	0.00	0.00	0.00
TD 2_2	0.00	0.00	0.00	0.00	0.00	0.00
TD 3_3	0.00	0.00	0.00	0.00	0.00	0.00
TD 4_4	0.00	0.00	0.00	0.00	0.00	0.00

Covariance Matrix of Parameter Estimates

	LY 9_2	LY 10_2	LX 1_1	LX 2_1	LX 3_1	LX 4_1
LY 9_2	0.01					
LY 10_2	0.00	0.01				
LX 1_1	0.00	0.00	0.01			
LX 2_1	0.00	0.00	0.00	0.01		
LX 3_1	0.00	0.00	0.00	0.00	0.01	
LX 4_1	0.00	0.00	0.00	0.00	0.00	0.01
BE 2_1	0.00	0.00	0.00	0.00	0.00	0.00
GA 1_1	0.00	0.00	0.00	0.00	0.00	0.00
GA 2_1	0.00	0.00	0.00	0.00	0.00	0.00
PS 1_1	0.00	0.00	0.00	0.00	0.00	0.00
PS 2_2	-0.01	-0.01	0.00	0.00	0.00	0.00
TE 1_1	0.00	0.00	0.00	0.00	0.00	0.00
TE 2_2	0.00	0.00	0.00	0.00	0.00	0.00
TE 3_3	0.00	0.00	0.00	0.00	0.00	0.00
TE 4_4	0.00	0.00	0.00	0.00	0.00	0.00
TE 5_5	0.00	0.00	0.00	0.00	0.00	0.00
TE 6_6	0.00	0.00	0.00	0.00	0.00	0.00
TE 7_7	0.00	0.00	0.00	0.00	0.00	0.00
TE 8_8	0.00	0.00	0.00	0.00	0.00	0.00
TE 9_9	0.00	0.00	0.00	0.00	0.00	0.00
TE 10_10	0.00	0.00	0.00	0.00	0.00	0.00
TD 1_1	0.00	0.00	0.00	0.00	0.00	0.00
TD 2_2	0.00	0.00	0.00	0.00	0.00	0.00
TD 3_3	0.00	0.00	0.00	0.00	0.00	0.00
TD 4_4	0.00	0.00	0.00	0.00	0.00	0.00

Covariance Matrix of Parameter Estimates

	BE 2_1	GA 1_1	GA 2_1	PS 1_1	PS 2_2	TE 1_1
BE 2_1	0.01					
GA 1_1	0.00	0.01				

GA 2_1	-0.01	0.00	0.01			
PS 1_1	0.00	0.00	0.00	0.03		
PS 2_2	0.00	0.00	0.00	0.00	0.02	
TE 1_1	0.00	0.00	0.00	0.00	0.00	0.01
TE 2_2	0.00	0.00	0.00	0.00	0.00	0.00
TE 3_3	0.00	0.00	0.00	0.00	0.00	0.00
TE 4_4	0.00	0.00	0.00	0.00	0.00	0.00
TE 5_5	0.00	0.00	0.00	0.00	0.00	0.00
TE 6_6	0.00	0.00	0.00	0.00	0.00	0.00
TE 7_7	0.00	0.00	0.00	0.00	0.00	0.00
TE 8_8	0.00	0.00	0.00	0.00	0.00	0.00
TE 9_9	0.00	0.00	0.00	0.00	0.00	0.00
TE 10_10	0.00	0.00	0.00	0.00	0.00	0.00
TD 1_1	0.00	0.00	0.00	0.00	0.00	0.00
TD 2_2	0.00	0.00	0.00	0.00	0.00	0.00
TD 3_3	0.00	0.00	0.00	0.00	0.00	0.00
TD 4_4	0.00	0.00	0.00	0.00	0.00	0.00

Covariance Matrix of Parameter Estimates

	TE 2_2	TE 3_3	TE 4_4	TE 5_5	TE 6_6	TE 7_7
TE 2_2	0.01					
TE 3_3	0.00	0.01				
TE 4_4	0.00	0.00	0.01			
TE 5_5	0.00	0.00	0.00	0.01		
TE 6_6	0.00	0.00	0.00	0.00	0.01	
TE 7_7	0.00	0.00	0.00	0.00	0.00	0.00
TE 8_8	0.00	0.00	0.00	0.00	0.00	0.00
TE 9_9	0.00	0.00	0.00	0.00	0.00	0.00
TE 10_10	0.00	0.00	0.00	0.00	0.00	0.00
TD 1_1	0.00	0.00	0.00	0.00	0.00	0.00
TD 2_2	0.00	0.00	0.00	0.00	0.00	0.00
TD 3_3	0.00	0.00	0.00	0.00	0.00	0.00
TD 4_4	0.00	0.00	0.00	0.00	0.00	0.00

Covariance Matrix of Parameter Estimates

	TE 8_8	TE 9_9	TE 10_10	TD 1_1	TD 2_2	TD 3_3
TE 8_8	0.00					

TE 9_9	0.00	0.00				
TE 10_10	0.00	0.00	0.00			
TD 1_1	0.00	0.00	0.00	0.00		
TD 2_2	0.00	0.00	0.00	0.00	0.01	
TD 3_3	0.00	0.00	0.00	0.00	0.00	0.01
TD 4_4	0.00	0.00	0.00	0.00	0.00	0.00

Covariance Matrix of Parameter Estimates

	TD 4_4
TD 4_4	0.00

Correlation Matrix of Parameter Estimates

	LY 2_1	LY 3_1	LY 4_1	LY 5_1	LY 6_1	LY 8_2
LY 2_1	1.00					
LY 3_1	0.50	1.00				
LY 4_1	0.49	0.50	1.00			
LY 5_1	0.49	0.50	0.49	1.00		
LY 6_1	0.49	0.50	0.50	0.49	1.00	
LY 8_2	0.00	0.00	0.00	0.00	0.00	1.00
LY 9_2	0.00	0.00	0.00	0.00	0.00	0.50
LY 10_2	0.00	0.00	0.00	0.00	0.00	0.50
LX 1_1	0.00	0.00	0.00	0.00	0.00	0.00
LX 2_1	0.00	0.00	0.00	0.00	0.00	0.00
LX 3_1	0.00	0.00	0.00	0.00	0.00	0.00
LX 4_1	0.00	0.00	0.00	0.00	0.00	0.00
BE 2_1	0.24	0.25	0.25	0.24	0.24	-0.25
GA 1_1	-0.31	-0.31	-0.31	-0.31	-0.31	0.00
GA 2_1	0.00	0.00	0.00	0.00	0.00	-0.17
PS 1_1	-0.56	-0.57	-0.57	-0.56	-0.56	0.00
PS 2_2	0.00	0.00	0.00	0.00	0.00	-0.56
TE 1_1	0.17	0.17	0.17	0.17	0.17	0.00
TE 2_2	-0.17	0.00	0.00	0.00	0.00	0.00
TE 3_3	0.00	-0.17	0.00	0.00	0.00	0.00
TE 4_4	0.00	0.00	-0.17	0.00	0.00	0.00
TE 5_5	0.00	0.00	0.00	-0.17	0.00	0.00
TE 6_6	0.00	0.00	0.00	0.00	-0.17	0.00
TE 7_7	0.00	0.00	0.00	0.00	0.00	0.26

TE 8_8	0.00	0.00	0.00	0.00	0.00	-0.27
TE 9_9	0.00	0.00	0.00	0.00	0.00	0.00
TE 10_10	0.00	0.00	0.00	0.00	0.00	0.00
TD 1_1	0.00	0.00	0.00	0.00	0.00	0.00
TD 2_2	0.00	0.00	0.00	0.00	0.00	0.00
TD 3_3	0.00	0.00	0.00	0.00	0.00	0.00
TD 4_4	0.00	0.00	0.00	0.00	0.00	0.00

Correlation Matrix of Parameter Estimates

	LY 9_2	LY 10_2	LX 1_1	LX 2_1	LX 3_1	LX 4_1
LY 9_2	1.00					
LY 10_2	0.48	1.00				
LX 1_1	0.00	0.00	1.00			
LX 2_1	0.00	0.00	0.24	1.00		
LX 3_1	0.00	0.00	0.23	0.24	1.00	
LX 4_1	0.00	0.00	0.23	0.24	0.23	1.00
BE 2_1	-0.24	-0.24	0.01	0.01	0.01	0.01
GA 1_1	0.00	0.00	0.13	0.14	0.13	0.14
GA 2_1	-0.17	-0.16	0.07	0.07	0.07	0.07
PS 1_1	0.00	0.00	0.01	0.01	0.01	0.01
PS 2_2	-0.54	-0.53	0.00	0.00	0.00	0.00
TE 1_1	0.00	0.00	0.00	0.00	0.00	0.00
TE 2_2	0.00	0.00	0.00	0.00	0.00	0.00
TE 3_3	0.00	0.00	0.00	0.00	0.00	0.00
TE 4_4	0.00	0.00	0.00	0.00	0.00	0.00
TE 5_5	0.00	0.00	0.00	0.00	0.00	0.00
TE 6_6	0.00	0.00	0.00	0.00	0.00	0.00
TE 7_7	0.25	0.25	0.00	0.00	0.00	0.00
TE 8_8	0.00	0.00	0.00	0.00	0.00	0.00
TE 9_9	-0.24	0.00	0.00	0.00	0.00	0.00
TE 10_10	0.00	-0.24	0.00	0.00	0.00	0.00
TD 1_1	0.00	0.00	-0.27	0.05	0.04	0.05
TD 2_2	0.00	0.00	0.05	-0.30	0.05	0.06
TD 3_3	0.00	0.00	0.04	0.05	-0.27	0.05
TD 4_4	0.00	0.00	0.05	0.06	0.05	-0.28

Correlation Matrix of Parameter Estimates

	BE 2_1	GA 1_1	GA 2_1	PS 1_1	PS 2_2	TE 1_1

BE 2_1	1.00					
GA 1_1	-0.18	1.00				
GA 2_1	-0.44	0.02	1.00			
PS 1_1	-0.27	0.20	0.02	1.00		
PS 2_2	0.16	0.00	0.10	0.00	1.00	
TE 1_1	0.09	-0.09	-0.01	-0.18	0.00	1.00
TE 2_2	0.00	0.02	-0.01	0.01	0.00	-0.03
TE 3_3	0.00	0.02	-0.01	0.01	0.00	-0.03
TE 4_4	0.00	0.02	-0.01	0.01	0.00	-0.03
TE 5_5	0.00	0.02	-0.01	0.01	0.00	-0.03
TE 6_6	0.00	0.02	-0.01	0.01	0.00	-0.03
TE 7_7	-0.09	0.00	-0.06	0.00	-0.26	0.00
TE 8_8	0.04	0.00	0.03	0.00	0.03	0.00
TE 9_9	0.03	0.00	0.02	0.00	0.02	0.00
TE 10_10	0.03	0.00	0.02	0.00	0.02	0.00
TD 1_1	-0.01	0.02	0.02	-0.01	0.00	0.00
TD 2_2	-0.01	0.02	0.02	-0.01	-0.01	0.00
TD 3_3	-0.01	0.02	0.02	-0.01	0.00	0.00
TD 4_4	-0.01	0.02	0.02	-0.01	0.00	0.00

Correlation Matrix of Parameter Estimates

	TE 2_2	TE 3_3	TE 4_4	TE 5_5	TE 6_6	TE 7_7
TE 2_2	1.00					
TE 3_3	-0.03	1.00				
TE 4_4	-0.03	-0.03	1.00			
TE 5_5	-0.03	-0.03	-0.03	1.00		
TE 6_6	-0.03	-0.03	-0.03	-0.03	1.00	
TE 7_7	0.00	0.00	0.00	0.00	0.00	1.00
TE 8_8	0.00	0.00	0.00	0.00	0.00	-0.09
TE 9_9	0.00	0.00	0.00	0.00	0.00	-0.07
TE 10_10	0.00	0.00	0.00	0.00	0.00	-0.06
TD 1_1	0.00	0.00	0.00	0.00	0.00	0.00
TD 2_2	0.00	0.00	0.00	0.00	0.00	0.00
TD 3_3	0.00	0.00	0.00	0.00	0.00	0.00
TD 4_4	0.00	0.00	0.00	0.00	0.00	0.00

Correlation Matrix of Parameter Estimates

	TE 8_8	TE 9_9	TE 10_10	TD 1_1	TD 2_2	TD 3_3
TE 8_8	1.00					
TE 9_9	-0.08	1.00				
TE 10_10	-0.07	-0.06	1.00			
TD 1_1	0.00	0.00	0.00	1.00		
TD 2_2	0.00	0.00	0.00	-0.08	1.00	
TD 3_3	0.00	0.00	0.00	-0.06	-0.08	1.00
TD 4_4	0.00	0.00	0.00	-0.07	-0.09	-0.07

Correlation Matrix of Parameter Estimates

	TD 4_4
TD 4_4	1.00

Covariances

Y - ETA

	CS1	CS2	CS3	CS4	CS5	CS6
CS	0.73	0.74	0.79	0.77	0.72	0.79
BL	0.43	0.43	0.46	0.45	0.42	0.46

Y - ETA

	BL1	BL2	BL3	BL4
CS	0.41	0.37	0.37	0.35
BL	0.70	0.63	0.63	0.60

Y - KSI

	CS1	CS2	CS3	CS4	CS5	CS6
BT	0.37	0.37	0.40	0.38	0.36	0.39

Y - KSI

	BL1	BL2	BL3	BL4
BT	0.35	0.32	0.32	0.31

X - ETA

	BT1	BT2	BT3	BT4
CS	0.33	0.36	0.34	0.33
BL	0.33	0.37	0.35	0.34

X - KSI

	BT1	BT2	BT3	BT4
BT	0.66	0.72	0.68	0.66

First Order Derivatives

LAMBDA-Y

	CS	BL
CS1	0.00	-0.06
CS2	0.00	-0.05
CS3	0.00	0.07
CS4	0.00	0.10
CS5	0.00	0.07
CS6	0.00	-0.13
BL1	-0.11	0.00
BL2	0.13	0.00
BL3	-0.14	0.00
BL4	0.13	0.00

LAMBDA-X

	BT

BT1 0.00
BT2 0.00
BT3 0.00
BT4 0.00

BETA

	CS	BL
CS	0.00	0.00
BL	0.00	0.00

GAMMA

	BT
CS	0.00
BL	0.00

PHI

BT
0.00

PSI

	CS	BL
CS	0.00	
BL	0.00	0.00

THETA-EPS

	CS1	CS2	CS3	CS4	CS5	CS6
CS1	0.00					
CS2	0.38	0.00				
CS3	0.19	0.15	0.00			
CS4	0.01	-0.38	0.15	0.00		
CS5	-0.20	-0.02	-0.43	0.06	0.00	

CS6	-0.26	-0.06	-0.16	0.07	0.49	0.00
BL1	-0.32	0.08	0.04	0.19	0.27	-0.42
BL2	0.41	-0.33	0.11	0.14	-0.24	0.13
BL3	-0.16	-0.04	0.15	-0.06	-0.13	0.05
BL4	0.03	0.19	-0.15	0.00	0.25	-0.15

THETA-EPS

	BL1	BL2	BL3	BL4
BL1	0.00			
BL2	0.34	0.00		
BL3	-0.42	0.42	0.00	
BL4	0.28	-1.05	0.40	0.00

THETA-DELTA-EPS

	CS1	CS2	CS3	CS4	CS5	CS6
BT1	-0.16	-0.04	0.10	0.06	0.18	0.12
BT2	-0.01	-0.01	-0.19	-0.30	0.36	-0.14
BT3	-0.27	0.21	-0.07	-0.05	-0.19	0.22
BT4	0.27	-0.18	0.18	0.16	-0.35	0.12

THETA-DELTA-EPS

	BL1	BL2	BL3	BL4
BT1	0.14	0.08	-0.05	-0.06
BT2	-0.03	0.24	-0.21	0.03
BT3	0.03	0.06	-0.13	0.24
BT4	-0.23	-0.31	0.00	0.23

THETA-DELTA

	BT1	BT2	BT3	BT4
BT1	0.00			
BT2	0.01	0.00		
BT3	-0.11	0.06	0.00	
BT4	-0.11	0.11	0.03	0.00

Factor Scores Regressions

ETA

	CS1	CS2	CS3	CS4	CS5	CS6
CS	0.19	0.18	0.18	0.18	0.18	0.17
BL	0.02	0.02	0.02	0.02	0.02	0.02

ETA

	BL1	BL2	BL3	BL4	BT1	BT2
CS	0.03	0.03	0.03	0.03	0.02	0.02
BL	0.27	0.33	0.28	0.28	0.02	0.02

ETA

	BT3	BT4
CS	0.02	0.02
BL	0.02	0.02

KSI

	CS1	CS2	CS3	CS4	CS5	CS6
BT	0.02	0.02	0.02	0.02	0.02	0.02

KSI

	BL1	BL2	BL3	BL4	BT1	BT2
BT	0.03	0.03	0.03	0.03	0.26	0.28

KSI

	BT3	BT4
BT	0.26	0.28

Standardized Solution

LAMBDA-Y

	CS	BL
CS1	0.73	- -
CS2	0.74	- -
CS3	0.79	- -
CS4	0.77	- -
CS5	0.72	- -
CS6	0.79	- -
BL1	- -	0.70
BL2	- -	0.63
BL3	- -	0.63
BL4	- -	0.60

LAMBDA-X

	BT
BT1	0.66
BT2	0.72
BT3	0.68
BT4	0.66

BETA

	CS	BL
CS	- -	- -
BL	0.44	- -

GAMMA

	BT
CS	0.50
BL	0.29

Correlation Matrix of ETA and KSI

	CS	BL	BT
CS	1.00		
BL	0.58	1.00	
BT	0.50	0.51	1.00

PSI
Note: This matrix is diagonal.

CS	BL
0.75	0.60

Regression Matrix ETA on KSI (Standardized)

	BT
CS	0.50
BL	0.51

Total and Indirect Effects

Total Effects of KSI on ETA

	BT
CS	0.50
	(0.10)
	4.93
BL	0.51
	(0.10)
	4.94

Indirect Effects of KSI on ETA

BT

CS - -
BL 0.22
(0.06)
3.37

Total Effects of ETA on ETA

	CS	BL
CS	- -	- -
BL	0.44	- -
	(0.11)	
	3.91	

Largest Eigenvalue of B*B' (Stability Index) is 0.191

Total Effects of ETA on Y

	CS	BL
CS1	0.73	- -
CS2	0.74	- -
	(0.09)	
	7.88	
CS3	0.79	- -
	(0.10)	
	8.01	
CS4	0.77	- -
	(0.10)	
	7.93	
CS5	0.72	- -
	(0.09)	
	7.84	
CS6	0.79	- -
	(0.10)	
	7.90	
BL1	0.31	0.70
	(0.08)	
	3.91	
BL2	0.28	0.63

(0.07) (0.08)
3.92 8.14
BL3 0.28 0.63
(0.07) (0.08)
3.89 7.89
BL4 0.26 0.60
(0.07) (0.08)
3.88 7.82

Indirect Effects of ETA on Y

CS	BL	
CS1	- -	- -
CS2	- -	- -
CS3	- -	- -
CS4	- -	- -
CS5	- -	- -
CS6	- -	- -
BL1	0.31	- -
(0.08)		
3.91		
BL2	0.28	- -
(0.07)		
3.92		
BL3	0.28	- -
(0.07)		
3.89		
BL4	0.26	- -
(0.07)		
3.88		

Total Effects of KSI on Y

BT	
CS1	0.37
(0.07)	
4.93	
CS2	0.37
(0.08)	

4.92
CS3 0.40
(0.08)
4.95
CS4 0.38
(0.08)
4.93
CS5 0.36
(0.07)
4.91
CS6 0.39
(0.08)
4.92
BL1 0.35
(0.07)
4.94
BL2 0.32
(0.06)
4.98
BL3 0.32
(0.07)
4.91
BL4 0.31
(0.06)
4.89

Standardized Total and Indirect Effects

Standardized Total Effects of KSI on ETA

BT

CS 0.50
BL 0.51

Standardized Indirect Effects of KSI on ETA

BT

CS	- -
BL	0.22

Standardized Total Effects of ETA on ETA

	CS	BL
CS	- -	- -
BL	0.44	- -

Standardized Total Effects of ETA on Y

	CS	BL
CS1	0.73	- -
CS2	0.74	- -
CS3	0.79	- -
CS4	0.77	- -
CS5	0.72	- -
CS6	0.79	- -
BL1	0.31	0.70
BL2	0.28	0.63
BL3	0.28	0.63
BL4	0.26	0.60

Standardized Indirect Effects of ETA on Y

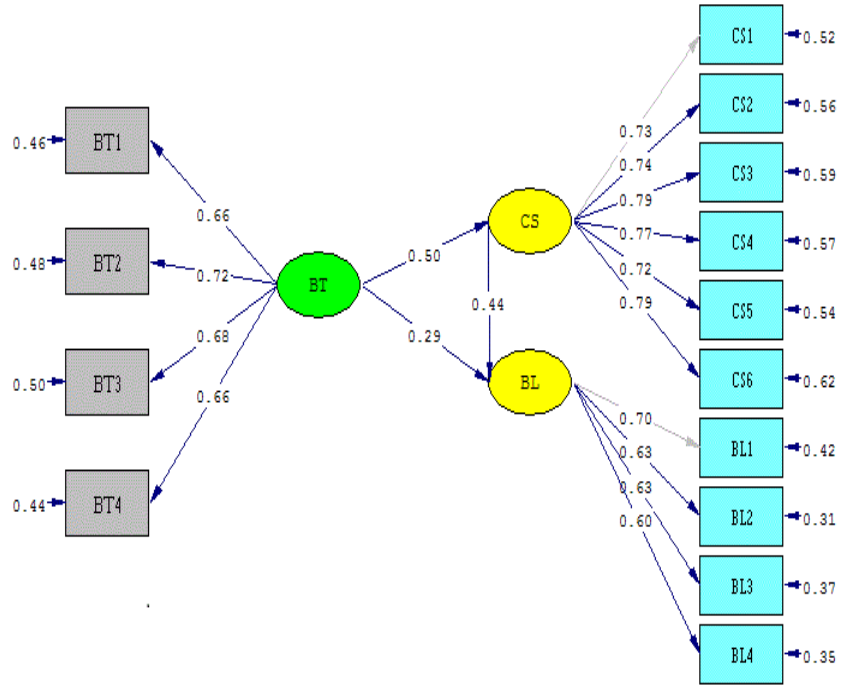
	CS	BL
CS1	- -	- -
CS2	- -	- -
CS3	- -	- -
CS4	- -	- -
CS5	- -	- -
CS6	- -	- -
BL1	0.31	- -
BL2	0.28	- -
BL3	0.28	- -
BL4	0.26	- -

Standardized Total Effects of KSI on Y

	BT
CS1	0.37
CS2	0.37
CS3	0.40
CS4	0.38
CS5	0.36
CS6	0.39
BL1	0.35
BL2	0.32
BL3	0.32
BL4	0.31

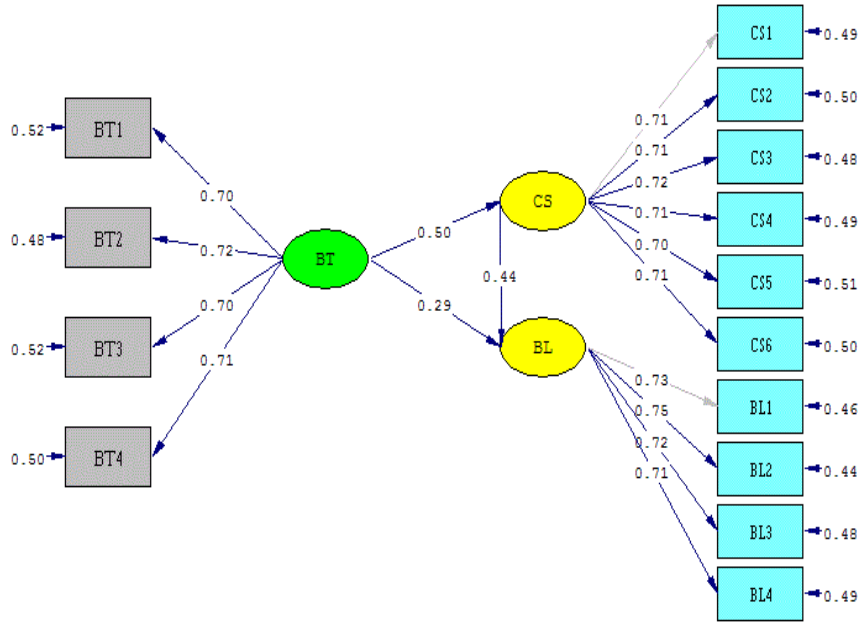
Time used: 0.141 Seconds

Lampiran 9 *Output* Gambar Estimates



Chi-Square=182.01, df=74, P-value=0.00000, RMSEA=0.069

Lampiran 10 *Output*gambar Standard Solution



Chi-Square=182.01, df=74, P-value=0.00000, RMSEA=0.069

Lampiran 11 *Output*gambar T-value