

بناء مقياس الخجل لدى طلبة الجامعات

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المخلص

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(ARSM)

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(0.97)

.(ARSM)

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١- المقدمة:

(Hoyos,2006).

Fitts , Sebby, &)

(Zlokovich, 2009

(Mounts, Valentiner, Anderson, & Boswell, 2006)

" : (Margraf & Rudolf,1999, p.5)

(Matsushima & shioma ,2001, p.290)

: (Hopko ,stowell,Jones, Cheek& Armento,2005, p.188)

(Cameron,2009, p.300)

Zimbardo & Hendderson,1996,)

(p.2

Spere &)

(Fordham,& Stevenson-Hinde, 1999, p.758)

(Evans,2009

(Crozier,2002, p.260)

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(Spere & Evans,2009)

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.(Hoglund& Nicholas,1995)

Hofmann, DiBartolo, Holaway &)

.(Heimberg, 2004

(Cheek & Buss,1981)

(Shyness Scale)

Jones &)

(Russell, 1982

(As Cited in Leary, & Kowalski, 1993) (Sarason)

(Cheek & Melchior, 1985)

(Cheek & Buss)

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(Matsushima & Shion ,2001)

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.(Hofmann, DiBartolo, Holaway & Heimberg, 2004)

Spere)

(& Evans,2009

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(Spere & Evans,2009)

Crystal , Parrott , Okazaki ,& Watanabe)

(, 2001

(Hoyos,2006)

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(Cheek & Krasnoperova,1999)

(University of Alberta Canda)

(Macdonald, 1998)

(Hoglund & Nicholas ,1995)

(Myers, Dilks,& Marceaux,2007)

(Turner ,Husman & Schallert,2002)

(Orr at ol ,2008)

(Face book)

face book

.face book

(Buss & Plomin ,1984)

(As Cited in Durkin, 2009)(Asendor & meier)

(Hoglund & Nicholas, 1995)

(Item Response Theory) (IRT)

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(Hambelton & Swaminathan, 1985)

(Anastasi, 1982)

(Unidimensionality)
Item)

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(Local Independence)

(Characteristic Curve

Crock & Algina,)

(Invariance)

(1986

(Lord, 1980)

(Rasch)

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(Dichotomous)
(Polytomous) : ()
:
(Continuous)
(Andrich Rating Scale) (Polytomous IRT Models)
(Andrich) (Model(ARSM)
(Lustina, 2004)
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(Muraki Rating Scale Model)(MRSM)

٢- مشكلة الدراسة:

(Rating Scale Model)

(Rasch)

Hofmann,)

(DiBartolo, Holaway & Heimberg, 2004)

(Hambleton & Swaminathan, 1985)

٣- أهمية الدراسة:

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٤- أهداف الدراسة:

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٥- أسئلة الدراسة:

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٦- التعريفات الاصطلاحية و الإجرائية:

٦-١- الخجل:

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٦-٢- نموذج سلم التقدير:

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(Polytomous)

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() ٦-٣- الخصائص السيكومترية للفقرة:

() (ICC)

:(Difficulty Location) (b) - -

:(Discrimination) (a) - -

(ICC)

(Lower Asymptote) ٦-٦- معلمة التخمين للفقرة (C):

٦-٧- الخصائص السيكومترية للمقياس:

٦-٨- دالة المعلومات للفقرة:

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٦-٩- دالة المعلومات للاختبار:

٦-١٠- معالم الأفراد:

٦-١١- تقدير المعالم لل فقرات والأفراد:

٧- محددات الدراسة:

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٨- الطريقة والإجراءات:

١-٨ مجتمع الدراسة:

(70181)

(165644)

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(95463)

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12170			11341		
16317			21426		
28487			32767		
3163			11379		
3986			15919		
7149			27298		
2237			6685		
1891			7773		
4128			14458		
807			10205		
633			10401		
1440			20606		
4974			7220		
6669			10448		
11643			17668		

٢-٨- عينة الدراسة:

(Available Sample)

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(Embretson & Reise, 2004)

(Reeve,2004)

IRT

٨-٣- إجراءات تطوير المقياس وفق نموذج سلم التقدير:

: (Hulin, Drasgow & Parsons, 1983)

٨-٣-١- الخطوة الأولى: تحديد أبعاد المقياس:

Zimbardo &)

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(Henderson, 1996

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Hopko, Stowell, Jone & Armento, 2005; Margraf &)

Rudolf, 1999; Matsushima & Shioma, 2001; Titov, Andrews, Schwencke, 2008; Titov, Andrews, Schwencke, Drobny, & Einstein, 2008; Cameron,

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(2009;

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٨-٣-٢- الخطوة الثانية: كتابة فقرات المقياس:

(Hopko, Stowell, Jone & Armento, 2005; Margraf & Rudolf, 1999;)
(Matsushima & Shioma, 2001; Cameron, 2009; Nelson , L. Padilla-Walker,
(L.Badger, S. Barry, Madsen, & Carroll , 2008)

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٨-٣-٣- الخطوة الثالثة: اختبار افتراض أحادية البعد للبيانات المتحققة بالقياس:

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Hattie,)

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(1985

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(Corrected Item Total Correlation)

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.45	.	.57	.	.11	.	.37	.	.50	.
.40	.	.54	.	.44	.	.46	.	.62	.
.44	.	.46	.	.44	.	.39	.	.59	.
.43	.	.45	.	.10	.	.33	.	.61	.
.41	.	.47	.	.14	.	.38	.	.63	.
.46	.	.49	.	.38	.	.40	.	.48	.
.46	.	.39	.	.04	.	.05	.	.42	.
.41	.	.42	.	.35	.	.44	.	.42	.
.40	.	.49	.	.46	.	.39	.	.52	.
.44	.	.43	.	.46	.	.37	.	.61	.
.39	.	.39	.	.36	.	.31	.	.50	.
.42	.	.43	.	.45	.	.42	.	.44	.
.38	.	.42	.	.46	.	.34	.	.49	.
.44	.	.36	.	.43	.	.42	.	.37	.
.43	.	.44	.	.44	.	.45	.	.44	.

As)

(Cited in Albanese & Forsyth, 1984

(Rechase)

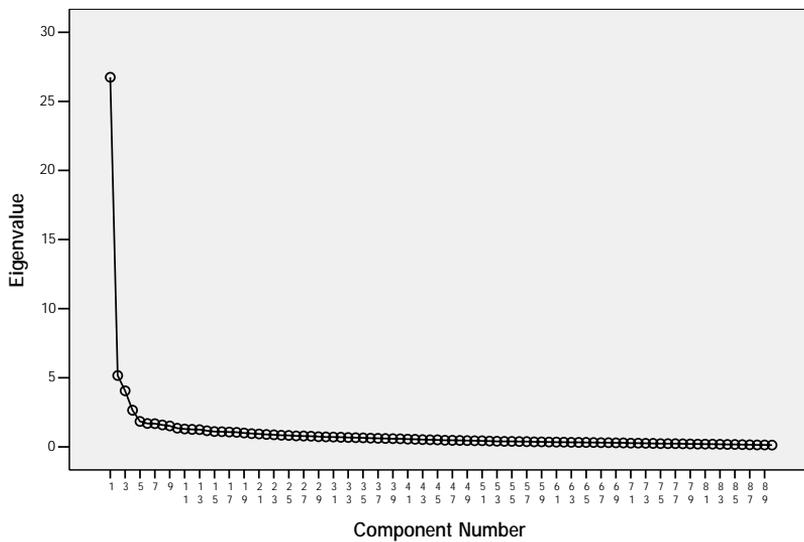
Hambelton &)

(Swaminathan, 1985; Hattie, 1985

(Eigen Values)

(Scree Plot)

Scree Plot



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٨-٣-٥- الخطوة الخامسة: تحليل بيانات المقياس:
(Rating Scale)

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(BIGSTEPS)
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(INFIT) (MNSQ) (ZSID)
(Outfit) (MNSQ, ZSID): (OUTFIT)
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TABLE 3.1 A Rating Scale Analysis nedal and ahmad.out
INPUT: 526 PERSONS, 90 ITEMS ANALYZED: 526 PERSONS, 90 ITEMS,

SUMMARY OF 525 MEASURED (NON-EXTREME) PERSON								
	RAW SCORE	COUNT	* MEASURE	MODEL ERROR	INFIT		OUTFIT	
					MNSQ	ZSTD	MNSQ	ZSTD
MEAN	208.3	87.7	-0.51	0.11	1.02	-0.2	1.01	-0.1
S.D.	63.2	6.6	0.63	0.05	0.39	2.7	0.40	2.6
MAX.	387.0	90.0	1.07	0.99	3.50	7.4	2.94	7.5
MIN.	47.0	38.0	-4.73	0.08	0.24	-7.7	0.25	-7.2
REAL RMSE	0.13	ADJ.SD	0.61	SEPARATION	4.75	PERSON RELIABILITY	0.96	
MODEL RMSE	0.12	ADJ.SD	0.62	SEPARATION	5.24	PERSON RELIABILITY	0.96	
S.E. OF PERSON MEAN 0.03								
WITH	1	EXTREME PERSONS	=	526 PERSONS	MEAN	-0.52	S.D.	0.67
REAL RMSE	0.15	ADJ.SD	0.65	SEPARATION	4.31	PERSON RELIABILITY	0.95	
MODEL RMSE	0.14	ADJ.SD	0.66	SEPARATION	4.62	PERSON RELIABILITY	0.96	

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(ZSTD)

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(Julian, 1988;Alastair & Hutchinson,1987)

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(Wright& Stone,1979)

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SUMMARY OF 90 MEASURED ITEMS

	RAW				MODEL	INFIT	OUTFIT	
	SCORE	COUNT	MEASURE	ERROR	MNSQ	ZSTD	MNSQ	ZSTD
MEAN	571.3	247.0	0.00	0.06	1.02	0.0	1.00	-0.2
S.D.	112.9	0.0	0.41	0.01	0.22	2.4	0.28	2.3
MAX.	935.0	247.0	0.97	0.09	1.86	8.7	2.09	8.9
MIN.	358.0	247.0	-1.21	0.06	0.73	-3.4	0.66	-3.4
REAL RMSE	0.06	ADJ.SD	0.41	SEPARATION	6.33	ITEM	RELIABILITY	0.98
MODEL RMSE	0.06	ADJ.SD	0.41	SEPARATION	6.59	ITEM	RELIABILITY	0.98
S.E. OF	ITEM	MEAN	0.04					

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(, ,) (,) (MNSQ)
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 (ZSTD) (, ,)

(Lincare & Wright, 1993) (Values Substantially above indicat noise)
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TABLE 10.1 A Rating scale Analysis nedal and ahmad.out
 INPUT: 248 PERSONS, 9 ITEMS ANALYZED: 248 PERSONS, 90 ITEMS,

ITEMS STATISTICS: MISFIT ORDER

ENTRY NUMBER	RAW SCORE	COUNT	MEASURE	ERROR	INFIT		OUTFIT		PTBIS CORR.	ITE
					MNSQ	ZSTD	MNSQ	ZSTD		
42	824	247	-0.83	0.06	1.86	8.7	2.09	8.9	A0.21	i42
60	754	247	-0.62	0.06	1.83	8.6	1.96	8.2	B0.12	i60
80	843	247	-0.90	0.06	1.77	7.8	1.86	7.2	C0.24	i80
48	935	247	-1.21	0.06	1.60	5.8	1.84	6.3	D0.19	i48
28	708	247	-0.47	0.06	1.49	5.5	1.72	6.4	E0.11	i28
2	432	247	0.53	0.07	1.26	2.3	1.48	2.9	F0.59	i2
18	478	247	0.32	0.06	1.03	0.3	1.46	3.1	G0.62	i18
32	647	247	-0.28	0.06	1.42	4.7	1.40	3.6	H0.41	i32
57	443	247	0.47	0.07	1.23	2.1	1.41	2.5	I0.43	i57
10	497	247	0.24	0.06	1.17	1.8	1.36	2.6	J0.50	i10
31	580	247	-0.06	0.06	1.31	3.4	1.21	1.9	K0.52	i31
46	548	247	0.05	0.06	1.22	2.4	1.30	2.4	L0.54	i46
52	562	247	0.00	0.06	1.26	2.9	1.21	1.8	M0.46	i52
19	732	247	-0.55	0.06	1.19	2.3	1.22	2.2	N0.45	i19
81	476	247	0.33	0.06	1.20	2.0	1.12	0.9	O0.51	i81
97	534	247	0.10	0.06	1.16	1.7	1.13	1.0	P0.45	i97

72	612	247	-0.17	0.06	1.15	1.8	1.05	0.5	Q0.52	i72
53	371	247	0.87	0.08	1.13	1.0	0.84	-1.0	R0.57	i53
54	373	247	0.86	0.08	1.13	1.0	0.99	-0.1	S0.56	i54
39	527	247	0.12	0.06	1.12	1.4	1.03	0.2	T0.57	i39
25	597	247	-0.12	0.06	1.12	1.4	1.08	0.8	U0.49	i25
86	394	247	0.73	0.08	1.12	1.0	0.91	-0.6	V0.54	i86
68	573	247	-0.04	0.06	1.04	0.5	1.12	1.0	W0.55	i68
7	681	247	-0.39	0.06	1.10	1.3	1.11	1.1	X0.51	i7
85	388	247	0.76	0.08	1.11	0.9	0.93	-0.4	Y0.52	i85
15	556	247	0.02	0.06	1.10	1.1	1.00	0.0	Z0.53	i15
BETTER FITTING OMITTED										
43	596	247	-0.12	0.06	0.89	-1.4	0.85	-1.5	z0.60	i43
91	616	247	-0.18	0.06	0.89	-1.5	0.83	-1.7	y0.55	i91
89	518	247	0.16	0.06	0.88	-1.4	0.81	-1.7	x0.55	i89
64	691	247	-0.42	0.06	0.87	-1.7	0.86	-1.5	w0.67	i64
74	624	247	-0.21	0.06	0.87	-1.7	0.87	-1.4	v0.58	i74
87	465	247	0.37	0.07	0.87	-1.4	0.84	-1.2	u0.60	i87
29	556	247	0.02	0.06	0.86	-1.7	0.83	-1.6	t0.59	i29
40	509	247	0.19	0.06	0.86	-1.7	0.78	-2.0	s0.65	i40
21	494	247	0.25	0.06	0.85	-1.7	0.82	-1.5	r0.65	i21
12	534	247	0.10	0.06	0.84	-1.9	0.75	-2.4	q0.70	i12
76	751	247	-0.61	0.06	0.83	-2.3	0.84	-1.8	p0.56	i76
35	618	247	-0.19	0.06	0.84	-2.1	0.81	-2.0	o0.60	i35
69	559	247	0.01	0.06	0.83	-2.1	0.81	-1.9	n0.64	i69
93	629	247	-0.23	0.06	0.83	-2.2	0.79	-2.2	m0.59	i93
33	648	247	-0.29	0.06	0.83	-2.3	0.80	-2.3	l0.59	i33
65	660	247	-0.32	0.06	0.83	-2.3	0.82	-2.0	k0.65	i65
63	574	247	-0.04	0.06	0.81	-2.4	0.82	-1.7	j0.71	i63
77	736	247	-0.56	0.06	0.80	-2.7	0.82	-2.1	i0.56	i77
66	488	247	0.28	0.06	0.82	-2.1	0.75	-2.2	h0.70	i66
11	527	247	0.12	0.06	0.81	-2.4	0.77	-2.1	g0.69	i11
5	630	247	-0.23	0.06	0.77	-3.1	0.71	-3.2	f0.69	i5
1	635	247	-0.25	0.06	0.77	-3.1	0.76	-2.6	e0.65	i1
23	566	247	-0.02	0.06	0.76	-3.0	0.74	-2.6	d0.66	i23
36	577	247	-0.05	0.06	0.76	-3.2	0.71	-3.0	c0.64	i36
71	641	247	-0.26	0.06	0.76	-3.3	0.75	-2.8	b0.59	i71
62	531	247	0.11	0.06	0.73	-3.4	0.66	-3.4	a0.77	i62
MEAN	571.	247.	0.00	0.06	1.02	0.0	1.00	-0.2		
S.D.	113.	0.	0.41	0.01	0.22	2.4	0.28	2.3		

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TABLE 3.1 A Rating Scale Analysis dedal3.out
 INPUT: 248 PERSONS, 97 ITEMS ANALYZED: 246 PERSONS, 45 ITEMS

SUMMARY OF 246 MEASURED (NON-EXTREME) PERSONS

	RAW	COUNT	MEASURE	MODEL	INFIT		OUTFIT		
	SCORE			ERROR	MNSQ	ZSTD	MNSQ	ZSTD	
MEAN	101.2	45.0	-0.69	0.16	0.99	0.0	0.98	0.0	
S.D.	33.0	0.0	0.73	0.07	0.22	1.0	0.24	1.0	

MAX.	195.0	45.0	1.13	0.98	1.80	3.0	2.19	3.8
MIN.	46.0	45.0	-4.06	0.12	0.46	-2.5	0.41	-2.5
REAL RMSE	0.18	ADJ.SD	0.71	SEPARATION	3.86	PERSON RELIABILITY	0.94	
MODEL RMSE	0.18	ADJ.SD	0.71	SEPARATION	3.98	PERSON RELIABILITY	0.94	
S.E. OF PERSON MEAN	0.05							

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(scale values)

SUMMARY OF 45 MEASURED ITEMS

RAW SCORE	COUNT	MEASURE	MODEL ERROR	INFIT MNSQ	ZSTD	OUTFIT MNSQ	ZSTD	
MEAN	553.1	246.0	0.00	0.06	1.02	0.2	0.98	-0.1
S.D.	97.1	0.0	0.38	0.01	0.06	0.6	0.09	0.8
MAX.	782.0	246.0	0.95	0.09	1.13	1.6	1.15	1.6
MIN.	357.0	246.0	-0.81	0.06	0.90	-1.2	0.80	-1.4
REAL RMSE	0.06	ADJ.SD	0.38	SEPARATION	5.82	ITEM RELIABILITY	0.97	
MODEL RMSE	0.06	ADJ.SD	0.38	SEPARATION	5.92	ITEM RELIABILITY	0.97	
S.E. OF ITEM MEAN	0.06							

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 Un conditional maximum likelihood)

(estimation (UCON)

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TABLE 13.1 A Rating Scale Analysis dedal3.out
 INPUT: 248 PERSONS, 90 ITEMS ANALYZED: 248 PERSONS, 45 ITEMS,

ENTRY NUMBER	RAW SCORE	COUNT	MEASURE	ERROR	INFIT		OUTFIT		PTBIS CORR.	ITE
					MNSQ	ZSTD	MNSQ	ZSTD		
55	357	246	0.95	0.09	1.05	0.4	0.80	-1.2	0.56	i55
84	395	246	0.69	0.08	0.96	-0.4	0.86	-0.9	0.53	i84
56	420	246	0.55	0.07	1.03	0.3	0.90	-0.7	0.60	i56
83	428	246	0.51	0.07	1.00	0.0	1.10	0.7	0.51	i83
70	431	246	0.49	0.07	0.98	-0.2	0.84	-1.2	0.59	i70
51	433	246	0.48	0.07	1.07	0.7	1.10	0.7	0.58	i51
13	439	246	0.45	0.07	1.12	1.2	1.05	0.4	0.59	i13
82	442	246	0.44	0.07	1.11	1.1	1.03	0.2	0.52	i82
50	443	246	0.43	0.07	1.01	0.1	0.84	-1.2	0.65	i50
14	450	246	0.40	0.07	1.05	0.5	1.00	0.0	0.62	i14
16	470	246	0.31	0.07	1.01	0.1	0.92	-0.7	0.59	i16
96	471	246	0.30	0.07	0.99	-0.1	0.90	-0.8	0.55	i96
95	486	246	0.24	0.07	1.08	0.8	0.94	-0.4	0.56	i95
61	491	246	0.21	0.07	1.04	0.5	1.04	0.4	0.72	i61
88	494	246	0.20	0.06	1.02	0.3	0.91	-0.7	0.61	i88
44	511	246	0.13	0.06	0.93	-0.7	0.84	-1.4	0.61	i44
17	531	246	0.05	0.06	1.05	0.6	1.00	0.0	0.50	i17
59	532	246	0.05	0.06	0.98	-0.3	0.88	-1.1	0.57	i59
73	533	246	0.05	0.06	1.03	0.4	0.96	-0.4	0.56	i73
37	545	246	0.00	0.06	1.01	0.1	0.96	-0.4	0.60	i37
47	545	246	0.00	0.06	0.96	-0.2	0.98	-0.1	0.61	i47
26	554	246	-0.03	0.06	0.90	-1.2	0.89	-1.1	0.54	i26
27	554	246	-0.03	0.06	1.07	0.9	1.05	0.5	0.52	i27
38	554	246	-0.03	0.06	0.93	-0.8	0.86	-1.3	0.58	i38
15	555	246	-0.04	0.06	1.10	1.1	0.99	-0.1	0.55	i15
24	561	246	-0.06	0.06	0.91	-1.1	0.86	-1.4	0.60	i24
4	568	246	-0.09	0.06	1.02	0.2	1.04	0.3	0.62	i4
20	582	246	-0.14	0.06	0.95	-0.6	0.91	-0.9	0.60	i20
6	591	246	-0.17	0.06	0.94	-0.8	1.08	0.8	0.53	i6
58	595	246	-0.18	0.06	1.05	0.6	1.00	0.0	0.48	i58
25	596	246	-0.19	0.06	1.10	1.2	1.05	0.5	0.51	i25
78	598	246	-0.19	0.06	1.00	0.0	0.98	-0.2	0.55	i78
67	609	246	-0.23	0.06	0.99	-0.1	0.94	-0.6	0.61	i67
90	632	246	-0.31	0.06	0.98	-0.3	0.97	-0.3	0.50	i90
9	638	246	-0.33	0.06	0.98	-0.2	1.05	0.5	0.58	i9
30	644	246	-0.35	0.06	1.02	0.3	1.03	0.3	0.49	i30
92	651	246	-0.38	0.06	1.08	0.9	1.05	0.5	0.46	i92
79	657	246	-0.40	0.06	1.01	0.1	1.05	0.5	0.55	i79
49	661	246	-0.41	0.06	1.13	1.6	1.15	1.5	0.51	i49
3	663	246	-0.42	0.06	1.00	0.0	0.99	-0.1	0.60	i3
94	663	246	-0.42	0.06	1.05	0.6	1.10	1.0	0.44	i94
22	677	246	-0.46	0.06	1.06	0.7	1.06	0.6	0.50	i22
8	697	246	-0.53	0.06	0.96	-0.5	1.01	0.1	0.53	i8
75	762	246	-0.74	0.06	1.06	0.8	1.12	1.3	0.47	i75
34	782	246	-0.81	0.06	1.08	1.0	1.15	1.6	0.42	i34

MEAN	553.	246.	0.00	0.06	1.02	0.2	0.98	-0.1		
S.D.	97.	0.	0.38	0.01	0.06	0.6	0.09	0.8		

(ZSTD) :

(Static total fit)

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(MNSQ)

MNSQ-) (,)

(ZSTD

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(Hambelton& Swaminathan, 1985)

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(Lower Asymptote)

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٩- الخصائص السيكومترية لفقرات مقياس الخجل (الصدق والثبات):
٩-١ - دلالات الصدق:

(Logical Validity)

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(logical Analysis)
(Construct Validity) ،(Cronbach,1971).

Shavelson,) (Correlational Techniques)
(Factor Analysis) (1991)
(Regression Analysis) (Multitrait – Multimethod matrix)

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.580	i67	.539	i27	.563	i3
.619	i70	.415	i30	.608	i4
.537	i73	.363	i34	.468	i6
.389	i75	.554	i37	.487	i9
.605	i78	.576	i38	.580	i13
.538	i79	.567	i44	.627	i14
.592	i82	.505	i47	.472	i15
.551	i83	.411	i49	.572	i16
.588	i84	.599	i50	.414	i17
.587	i88	.595	i51	.630	i18
.462	i90	.558	i55	.531	i20
.448	i92	.592	i56	.427	i22
.444	i94	.456	i58	.526	i24
.541	i95	.537	i59	.443	i25
.561	i96	.692	i61	.528	i26

(, $>\alpha$)

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33.251	33.251	15.295	
39.027	5.777	2.657	
43.768	4.740	2.180	
47.005	3.237	1.489	

49.727	2.722	1.252	
52.224	2.497	1.148	
54.594	2.370	1.090	
56.853	2.259	1.039	

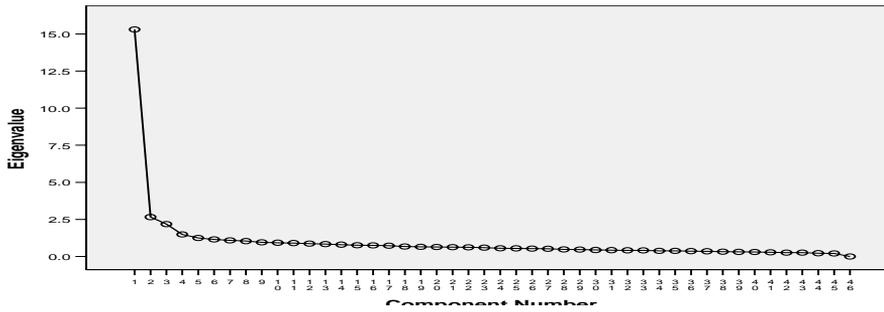
% ,

% ,

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(15.295)
(Hattie, 1985)

Scree Plot



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(Factor Load)

Cited in Abed- Gaid, Trueblood &)

(Shrigley, 1986

Abd-Gaid, Trueblood &)

(,)
(Shrigley, 1986

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العوامل								أرقام الفقرات
8	7	6	5	4	3	2	1	
-.021	.005	.261	.259	.098	.217	.519	.179	i3
-.086	.124	.194	.126	.239	.150	.665	.175	i4
-.228	.254	.209	.161	.176	.068	.441	.182	i6
.257	-.106	.105	.139	.101	.089	.449	.529	i8
.007	-.014	.288	.541	.205	.145	.253	.069	i9
.092	.029	.046	.097	.079	.097	.658	.316	i13
.190	.021	.042	.068	.143	.133	.676	.302	i14
.119	.213	.035	.469	.243	.065	.360	-.018	i15
.280	-.022	.077	.168	.343	.087	.487	.173	i16
.369	-.046	.258	.212	.096	.117	.292	.033	i17
.231	-.044	.079	.554	.085	.111	.166	.338	i20
.051	-.048	.207	.687	.138	.202	.007	.129	i22
.101	.078	-.040	.229	.667	.227	.163	.143	i24
.029	.003	.032	.175	.736	.137	.111	.115	i25
.186	.041	.121	.091	.735	.001	.183	.221	i26
.146	.179	.239	.059	.658	.038	.189	.172	i27
.135	.015	.706	.226	.048	.063	.048	.179	i30
.034	.160	.609	.103	.138	.187	.144	-.049	i34
.291	-.028	.332	-.024	.134	.085	.499	.248	i37
.160	.148	.515	.226	.057	.096	.306	.246	i38
.169	.123	.283	-.018	.297	.044	.262	.423	i44
.272	.231	-.016	.136	.200	.076	.405	.168	i47
.115	.323	.052	.711	.096	.037	.143	-.029	i49
.071	.300	.086	.141	.083	.005	.447	.444	i50

.033	.150	.076	.208	.018	.011	.506	.469	i51
.251	.200	-.070	.040	.084	-.029	.394	.535	i55
.431	.021	-.035	.023	.054	.097	.492	.438	i56
.683	.187	.126	.139	.183	.157	.108	.060	i58
.542	.146	.182	.200	.300	.134	.104	.184	i59
.185	.117	.147	.023	.134	.260	.404	.532	i61
.110	.250	.151	.341	.190	.304	.162	.257	i67
.103	.240	.132	.029	.147	.065	.255	.636	i70
.153	.601	.059	.047	.153	.132	.132	.379	i73
.036	.483	.104	.086	.030	.575	.064	.001	i75
.167	.507	.239	.050	.086	.292	.159	.367	i78
.074	.542	.128	.295	.065	.371	-.002	.281	i79
-.012	.173	.043	.129	.093	.142	.166	.720	i82
.032	.012	.041	.019	.103	.094	.227	.731	i83
.036	.040	.077	.107	.112	.083	.165	.774	i84
.118	-.020	-.076	.091	.170	.507	.330	.381	i88
.136	.115	-.008	.129	.063	.703	.130	.131	i90
.031	.059	.120	.061	.067	.749	.140	.114	i92
.086	.057	.194	.130	.102	.634	.015	.174	i94
.001	.123	.077	.098	.145	.358	.058	.565	i95
.005	.060	.100	.072	.178	.356	.119	.557	i96
3	3	3	6	4	5	11	10	عدد الفقرات المشعبة بالعامل

٩-٢- دالات الثبات:

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person)

(Item Reliability)

(Reliability)

Item separation)

(Gi) (Index)

(person separation Index) (Gp) $\left(\frac{G^2}{1+G^2} \right)$

(Wright & Masters, 1982) $(R = G^2 / 1 + G^2)$:R

(KR-20) () (Julian, 1988)

H = $(4GH)/3$

$$I(\theta) = \sum_g I_g(\theta)$$

$$I(\theta) = \sum_g I_g(\theta) \cdot \theta$$

(Information Function)

$$I(\theta) = [P'i(\theta)]^2 / [Pi(\theta)(1 - Pi(\theta))]$$

.....

$$: [P'i(\theta)] . \quad : [Pi(\theta)] : \\ (\theta)$$

$$I(\theta) = Pi(\theta)Qi(\theta) ;$$

(θ)

$$: \mathbf{I} (\theta) : \quad I(\theta) = \sum_{i=1}^N ii(\theta) ; \\ (\theta)$$

:N (θ)

:ii (θ)

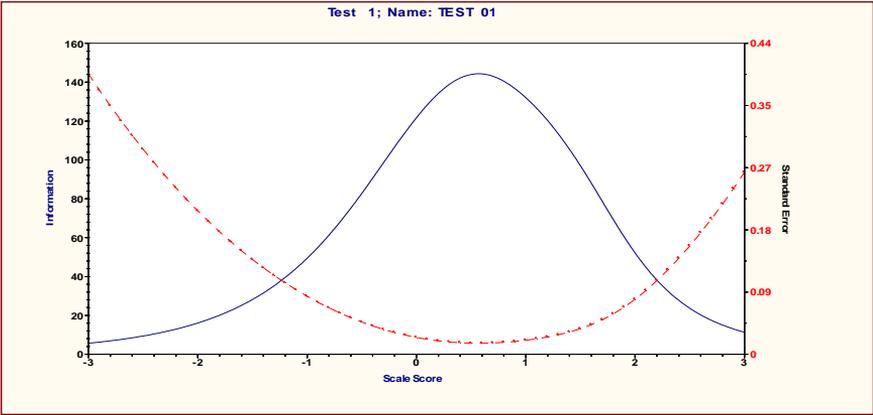
(Hambleton & Swaminathan, 1985)

$$: SE(\theta) : \quad SE(\theta) = \frac{1}{\sqrt{I(\theta)}} ; \\ (\theta) \quad : I(\theta) (\theta)$$

Para)

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(scale



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($\theta = b$)

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(Reeve,2004)

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:

($\theta = b$)

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(Reeve,2004)

المراجع

المراجع العربية:

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