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//
// WINMIRA 2001 1.45
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//
// date of analysis: 03.11.2009 time : 22:42:06
//
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FileNames:

```
data: C:\Program Files\Winmira 2001\data\Kft.dat
output: C:\Program Files\Winmira 2001\data\Kft.O10
patterns: C:\Program Files\Winmira 2001\data\Kft.PAT
```

```
number of persons      :    300
number of items        :      5
number of classes      :      1
max. number of iterations :    250
accuracy criterion     : 0.0005
random start value     :   4321
```

item labels and sample frequencies:

no.	label	n of		categories		N
		cats		0	1	
1	VAR1	2		105	195	300
2	VAR2	2		125	175	300
3	VAR3	2		157	143	300
4	VAR4	2		187	113	300
5	VAR5	2		206	94	300

```
saturated likelihood      :    -830.3929
number of different patterns :      30
number of possible patterns :      32
```

Number of iterations needed: 37

fitted model: (MIRA) Mixed Rasch Model:

according to the ordinal (partial credit) model in 1 latent classes.

Final estimates in CLASS 1 of 1 with size 1.00000
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Expected Score Frequencies and Personparameters:

score frequency | person parameters and standard errors:

Raw- score	Expected freq.	MLE- estimate	std. error MLE	WLE- estimate	std. error WLE
0	58.00	*****	*****	-2.771	1.713
1	48.00	-1.596	1.177	-1.333	1.111
2	46.00	-0.474	0.988	-0.413	0.984
3	50.00	0.480	0.987	0.422	0.983
4	60.00	1.595	1.174	1.333	1.107
5	38.00	*****	*****	2.758	1.706

```
WLE estimates : Mean      = -0.126 Var = 3.128 stdev = 1.769
                  marginal error variance = 1.688 stdev = 1.299
                  anova reliability = 0.649
                  Andrichs reliability = 0.460
```

WLE = Warm's modified likelihood estimates,
MLE = Standard maximum likelihood estimates.

Raw-score : Mean = 2.400 Stdev = 1.697

expected category frequencies and item scores:

Item label	Item's		relative category	
	Score	Stdev	frequencies	
			0	1
VAR1	0.65	0.48	0.350	0.650
VAR2	0.58	0.49	0.417	0.583
VAR3	0.48	0.50	0.523	0.477
VAR4	0.38	0.48	0.623	0.377
VAR5	0.31	0.46	0.687	0.313

Sum: | 2.40

threshold parameters: ordinal (partial credit) model

item label	item location	threshold parameters
VAR1	-1.17591	
VAR2	-0.68701	
VAR3	0.04225	
VAR4	0.70074	
VAR5	1.11992	

item fit assessed by the Q-index

itemlabel	Q-index	Zq	p(X>Zq)	
VAR1	0.0913	0.4674	0.32012	-..Q.!....+
VAR2	0.0391	-0.6758	0.75042	-....!.Q..+
VAR3	0.0866	0.3356	0.36858	-..Q.!....+
VAR4	0.0334	-1.0174	0.84551	-....!.Q..+
VAR5	0.1098	0.9164	0.17973	-Q...!....+

-?:p<0.05, +?:p>0.95

-!:p<0.01, +!:p>0.99

person fit index descriptives:

mean : 0.0023142
std.dev. : 1.0237662
skewness : -0.6714026
kurtosis : -0.8263120

Goodness of fit statistics:

	estimated model	saturated model
Log-Likelihood :	-854.83	-830.39
Number of parameters :	9	31
geom. mean likelihood :	0.56558824	0.57487927

Information Criteria:

AIC-Index :	1727.67	1722.79
BIC-Index :	1761.00	1837.60
CAIC-Index :	1770.00	1868.60

Power Divergence GoF statistics:

	emp. value	chi-square p-value
Cressie Read :	48.28	p= 0.0010
Pearson Chisquare :	49.41	p= 0.0007

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Likelihood ratio	:	48.88	p=	0.0008
Freeman-Tukey Chi^2	:	54.38	p=	0.0001
Degrees of freedom	:	22		

WARNING: Number of cells is larger than number of different patterns!!!
 obs.patterns/cells = 0.9375000000000000
 number of zero cells = 2

The data might be very sparse, please do not use the
 chi square p-value approximation for the Power Divergence
 Goodness of Fit Statistics.
 Consider to use the parametric bootstrap procedure instead.
 In addition, several start values should be used
 (see defaults menu) in order to examine the occurrence
 of local likelihood maxima.

Parametric Bootstrap estimates for Goodness of Fit:

No.:	Satluk	LogLik	LR	CressieRead	Pearson X^2	FT
	Z:	3.614	3.962	3.880	2.5880	
	P (X>Z):	0.000	0.000	0.000	0.0048	
	Mean:	23.089	21.624	22.129	29.8121	
	Stdev:	7.136	6.729	7.033	9.4924	
	p-values (emp. PDF):	0.000	0.000	0.000	0.0000	

It is recommended to use only the empirical p-values of the
 Pearson X^2 and the Cressie Read statistics. Do not use the
 FT and LR statistics for model selection!