

* Encoding: UTF-8.

TITLE RUN weighted Euclidean model on Rosenberg & Kim kinship sorting data.

>Warning # 2003. Command name: TITLE

>The title given exceeds 60 characters in length. The first 60 characters will
1

>be used.

RUNweighted Euclidean model on Rosenberg & Kim kinship sort

COMMENT the data have been converted to dissimilarities.

COMMENT the matrices below represent (females,males) multiple sort 1, multiple sort 2, single sort.

DATA LIST

/1 AUNT 1-3 BROTHR 4-6 COUSIN 7-9 DAUGHT 10-12 FATHER 13-15 GRDAUG 16-18 GRFATH 19-21 GRMOTH 22-24 GRSON 25-27 MOTHER 28-30
NEPHEW 31-33 NIECE 34-36 SISTER 37-39 SON 40-42 UNCLE 43-45.

Data List will read 1 records from the command file

Variable	Rec	Start	End	Format
AUNT	1	1	3	F3.0
BROTHR	1	4	6	F3.0
COUSIN	1	7	9	F3.0
DAUGHT	1	10	12	F3.0
FATHER	1	13	15	F3.0
GRDAUG	1	16	18	F3.0
GRFATH	1	19	21	F3.0
GRMOTH	1	22	24	F3.0
GRSON	1	25	27	F3.0
MOTHER	1	28	30	F3.0
NEPHEW	1	31	33	F3.0
NIECE	1	34	36	F3.0
SISTER	1	37	39	F3.0
SON	1	40	42	F3.0
UNCLE	1	43	45	F3.0

BEGIN DATA

79

56 70

36 66 71

76 22 78 63

34 73 70 25 77

76 35 75 76 32 61

36 78 75 34 76 17 48

77 27 71 71 31 49 17 63

33 68 76 15 50 31 76 30 77

57 33 55 74 38 74 37 78 30 80

RUNweighted Euclidean model on Rosenberg & Kim kinship sort

13 75 54 32 79 31 77 38 73 39 45
38 48 70 20 67 28 77 34 74 21 77 35
77 20 72 48 16 70 35 77 26 62 32 72 66
47 38 59 79 32 78 37 77 35 75 13 57 79 38

76
55 63
60 56 73
70 42 78 52
57 74 72 44 78
72 58 76 76 45 57
54 79 78 52 70 29 29
74 54 70 68 55 28 30 56
52 64 80 24 29 54 70 45 77
51 52 48 72 61 71 59 78 53 80
26 71 49 53 80 52 78 59 70 61 26
58 23 65 34 65 53 79 58 73 43 71 52
77 35 71 28 25 68 53 75 46 51 54 71 55
28 56 54 77 50 77 55 74 59 69 26 52 75 59

78
53 62
54 66 71
73 33 72 63
52 74 75 49 74
75 52 70 73 48 52
48 77 76 52 73 27 31
78 48 69 72 50 30 25 52
45 60 77 36 31 50 74 47 76
58 48 45 72 54 74 51 76 47 80
30 75 52 49 77 49 75 52 74 53 30
51 32 69 42 61 49 77 52 75 34 74 47
78 41 67 28 36 72 51 74 47 63 47 74 67
31 51 47 77 46 77 48 75 51 74 29 57 78 53

74
60 56
54 57 67
66 36 68 62

RUNweighted Euclidean model on Rosenberg & Kim kinship sort

51 69 65 34 78
68 53 69 74 39 62
43 78 74 47 69 34 31
74 45 61 67 50 34 35 62
40 62 74 33 32 50 68 39 76
64 41 45 67 52 65 49 75 39 78
38 67 51 41 80 39 75 49 66 53 30
52 31 62 27 63 40 77 51 69 36 68 40
78 32 63 35 34 68 49 77 37 63 40 67 57
28 50 54 79 40 76 44 69 51 66 39 63 77 53

83
38 77
79 61 83
79 55 84 43
79 82 82 69 83
84 76 84 83 73 48
78 83 84 74 82 38 11
85 73 81 80 74 13 38 48
72 63 84 34 13 74 82 73 83
49 74 53 81 77 80 78 84 73 83
42 83 53 74 85 72 85 79 79 79 12
77 10 78 52 63 73 83 76 82 55 81 76
85 52 82 14 34 80 74 83 69 43 74 81 61
10 77 39 85 72 85 78 84 79 79 42 49 83 79

84
55 73
71 67 80
76 42 82 61
71 77 79 55 82
84 69 81 81 66 60
70 82 82 65 80 46 21
85 60 79 73 66 21 43 61
63 59 83 44 19 66 81 63 82
59 69 58 79 72 79 71 85 64 85
45 82 59 64 85 63 84 72 80 72 20
72 21 75 47 61 59 83 68 76 46 82 67
84 49 80 22 44 75 65 81 56 60 65 80 64

RUNweighted Euclidean model on Rosenberg & Kim kinship sort

17 71 55 84 63 85 70 84 72 76 46 60 84 70
END DATA.

TITLE run PROXSCAL on Rosenberg and Kim kinship data.

run PROXSCAL on Rosenberg and Kim kinship data

PROXSCAL

```
VARIABLES= AUNT BROTHR COUSIN DAUGHT FATHER GRDAUG GRFATH GRMOTH GRSON MOTHE  
R NEPHEW NIECE SISTER SON UNCLE  
/SHAPE=LOWER  
/INITIAL=TORGERSO  
/CONDITION=MATRIX  
/TRANSFORMATION=INTERVAL  
/PROXIMITIES=DISSIMILARITIES  
/MODEL=WEIGHTED  
/CRITERIA=DIMENSIONS(2,2) MAXITER(100) DIFFSTRESS(.0001) MINSTRESS(.0001)  
/PRINT=COMMON WEIGHTS INPUT STRESS  
/PLOT=COMMON WEIGHTS .
```

Proxscal

Credit

Proxscal
Version 1.0
by
Leiden SPSS Group
Leiden University
The Netherlands

Case Processing Summary

Cases		90
Sources		6
Objects		15
Proximities	Total Proximities	630 ^a
	Missing Proximities	0
	Active Proximities ^b	630

a. Sum over sources of all strictly lower-triangular proximities.

b. Active proximities include all non-missing proximities.

Input Data

run PROXSCAL on Rosenberg and Kim kinship data

Proximities

Source: SRC_1

	AUNT	BROTHR	COUSIN	DAUGHT	FATHER	GRDAUG	GRFATH
AUNT	.						
BROTHR	79.000	.					
COUSIN	56.000	70.000	.				
DAUGHT	36.000	66.000	71.000	.			
FATHER	76.000	22.000	78.000	63.000	.		
GRDAUG	34.000	73.000	70.000	25.000	77.000	.	
GRFATH	76.000	35.000	75.000	76.000	32.000	61.000	.
GRMOTH	36.000	78.000	75.000	34.000	76.000	17.000	48.000
GRSON	77.000	27.000	71.000	71.000	31.000	49.000	17.000
MOTHER	33.000	68.000	76.000	15.000	50.000	31.000	76.000
NEPHEW	57.000	33.000	55.000	74.000	38.000	74.000	37.000
NIECE	13.000	75.000	54.000	32.000	79.000	31.000	77.000
SISTER	38.000	48.000	70.000	20.000	67.000	28.000	77.000
SON	77.000	20.000	72.000	48.000	16.000	70.000	35.000
UNCLE	47.000	38.000	59.000	79.000	32.000	78.000	37.000

run PROXSCAL on Rosenberg and Kim kinship data

Proximities

Source: SRC_1

	GRMOTH	GRSON	MOTHER	NEPHEW	NIECE	SISTER	SON
AUNT							
BROTHR							
COUSIN							
DAUGHT							
FATHER							
GRDAUG							
GRFATH							
GRMOTH	.						
GRSON	63.000	.					
MOTHER	30.000	77.000	.				
NEPHEW	78.000	30.000	80.000	.			
NIECE	38.000	73.000	39.000	45.000	.		
SISTER	34.000	74.000	21.000	77.000	35.000	.	
SON	77.000	26.000	62.000	32.000	72.000	66.000	.
UNCLE	77.000	35.000	75.000	13.000	57.000	79.000	38.000

run PROXSCAL on Rosenberg and Kim kinship data

Proximities

Source: SRC_1

	UNCLE
AUNT	
BROTHR	
COUSIN	
DAUGHT	
FATHER	
GRDAUG	
GRFATH	
GRMOTH	
GRSON	
MOTHER	
NEPHEW	
NIECE	
SISTER	
SON	
UNCLE	.

Goodness of Fit

Stress and Fit Measures

Normalized Raw Stress	.07643
Stress-I	.27646 ^a
Stress-II	.71501 ^a
S-Stress	.16184 ^b
Dispersion Accounted For (D.A.F.)	.92357
Tucker's Coefficient of Congruence	.96103

PROXSCAL minimizes Normalized Raw Stress.

a. Optimal scaling factor = 1.083.

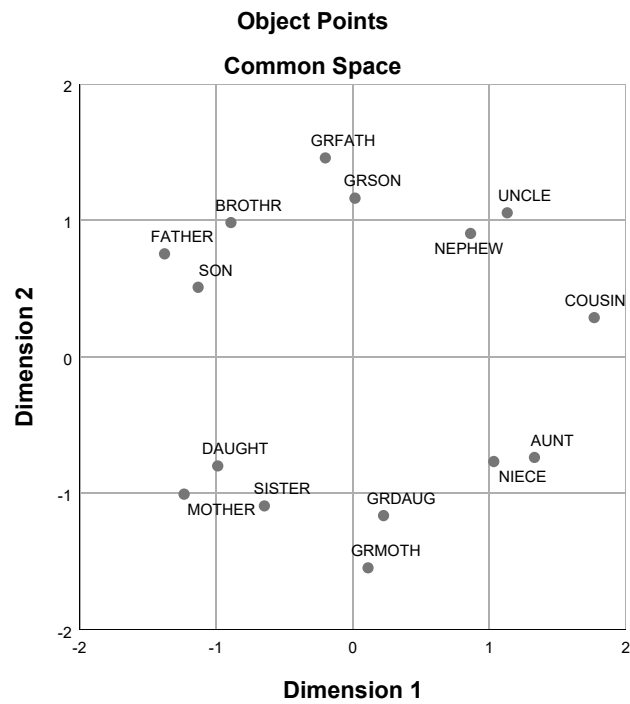
b. Optimal scaling factor = .957.

Common Space

run PROXSCAL on Rosenberg and Kim kinship data

Final Coordinates

	Dimension	
	1	2
AUNT	1.331	-.737
BROTHR	-.893	.983
COUSIN	1.768	.287
DAUGHT	-.990	-.800
FATHER	-1.379	.754
GRDAUG	.225	-1.163
GRFATH	-.201	1.457
GRMOTH	.112	-1.546
GRSON	.016	1.162
MOTHER	-1.236	-1.006
NEPHEW	.863	.904
NIECE	1.033	-.767
SISTER	-.648	-1.092
SON	-1.133	.509
UNCLE	1.131	1.055



run PROXSCAL on Rosenberg and Kim kinship data

Individual Spaces

Dimension Weights

Source	Dimension	
	1	2
SRC_1	.391	.543
SRC_2	.489	.441
SRC_3	.460	.472
SRC_4	.439	.491
SRC_5	.524	.377
SRC_6	.507	.405

