Matrix

Anmerkungen

Ausgabe erstellt		13-NOV-2005 21:59:00
Kommentare		
Eingabe	Daten	D:\01 Bobby\03 Dissertation\Text\Studie I (Paar-Studie)\Rohdatensatz (Personendatensatz) MW-ersetzt.sav
	Filter	<keine>
	Gewichtung	<keine>
	Aufgeteilte Datei	<keine>
Syntax		matrix. mget /type = corr /file = 'C:\datafa2.cor'. call eigen(cr,eigvect,eigval). compute loadings = eigvect * sqrt(mdiag(eigval)). compute fm = make(nrow(cr),2,-9999). compute fm(1,2)=(mssq(cr)-ncol(cr)) / (ncol(cr) * (ncol(cr)-1))). loop #m = 1 to ncol(cr) - 1. compute a = loadings(:,1:#m). compute partcov = cr - (a*t(a)). compute d = mdiag (1/(sqrt(diag(partcov)))). compute pr = d*partcov * d. compute fm(#m+1,2)=(mssq(pr)-ncol(cr)) / (ncol(cr)*(ncol(cr)-1))). end loop. *identifying the smallest fm valur & its location (=the # of factors). compute minfm = fm(1,2). compute nfactors = 0. loop #s = 1 to nrow(fm). compute fm(#s,1) = #s - 1. do if(fm(#s,2) < minfm). compute minfm = fm(#s,2). compute nfactors = #s -1. end if. end loop. print eigval /title="Eigenvalue". print fm /title="Velicer´s Average Squared Correlations". print minfm /titl="The smallest average squared correlation is". print nfactors /title="The number of components is". end matrix.
Ressourcen	Verstrichene Zeit	0:00:00,45

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Run MATRIX procedure:

MGET created matrix CR.
The matrix has 9 rows and 9 columns.
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The matrix was read from the record(s) of row type CORR.

Eigenvalue
   2,918895640
   1,501424337
   1,204628523
    ,950692702
    ,640747673
    ,615946978
    ,449617644
    ,405247368
    ,312799135

Velicer´s Average Squared Correlations
    ,000000000    ,074768699
   1,000000000    ,044979868
   2,000000000    ,064256161
   3,000000000    ,083183807
   4,000000000    ,109841758
   5,000000000    ,176958257
   6,000000000    ,277652022
   7,000000000    ,516405756
   8,000000000   1,000000000

The smallest average squared correlation is
  10 ** -2   X
   4,497986760

The number of components is
  1

------ END MATRIX -----
```

Matrix

```
Run MATRIX procedure:

Specifications for this Run:
Ncases      97
Nvars        9
Ndatsets  2000
Percent     95

Random Data Eigenvalues
          Root          Means       Prcntyl
   1,000000000   1,493156741   1,660126120
   2,000000000   1,321686308   1,429423054
   3,000000000   1,189813510   1,273997330
   4,000000000   1,080127779   1,159170981
   5,000000000    ,977251548   1,046106172
   6,000000000    ,882856833    ,954171186
   7,000000000    ,786316722    ,860269790
   8,000000000    ,689379777    ,768255415
   9,000000000    ,579410781    ,666368576

------ END MATRIX -----
```