

## Matrix Spectral Decomposition (matSpDlite) - RESULTS

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Your Uploaded Correlation Matrix (absolute values to 4 decimal places):

	1	2	3	4	5	6	7	8
1	1.0000	-0.0977	0.0329	0.1146	0.1521	0.2398	0.1388	0.1359
2	-0.0977	1.0000	0.0544	0.4868	0.5085	0.0571	0.4129	0.4164
3	0.0329	0.0544	1.0000	0.0198	0.0289	0.0340	0.0339	0.0109
4	0.1146	0.4868	0.0198	1.0000	0.8939	0.5733	0.6609	0.6665
5	0.1521	0.5085	0.0289	0.8939	1.0000	0.6524	0.7247	0.7293
6	0.2398	0.0571	0.0340	0.5733	0.6524	1.0000	0.6416	0.6440
7	0.1388	0.4129	0.0339	0.6609	0.7247	0.6416	1.0000	0.9957
8	0.1359	0.4164	0.0109	0.6665	0.7293	0.6440	0.9957	1.0000

Original (total) number of variables (V) after removing redundant (collinear) variables:

8

For factor 1 to V, original eigenvalues associated with the correlation matrix:

1 4.1534  
 2 1.1851  
 3 1.0054  
 4 0.7518  
 5 0.5388  
 6 0.2676  
 7 0.0940  
 8 0.0040

Variance of the observed eigenvalues:

1.8002

Effective number of independent variables [Veff]:

6.4248

Significance threshold required to keep Type I error rate at 5% (0.05/Veff):

0.00778233889172269

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 USING THE REPORTEDLY MORE ACCURATE ESTIMATE OF THE Veff [VeffLi] PROPOSED BY LI AND JI (2005):

Effective Number of Independent Variables [VeffLi] (using Equation 5 of Li and Ji 2005):

5

Experiment-wide Significance Threshold Required to Keep Type I Error Rate at 5%:

0.0102062183130115

NB: I recommend using the Li and Ji (2005) approach only if VeffLi < Veff.

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**If the results are incomplete between the above two lines there must be a problem with your input file => please re-check. However, if you are 100% confident that your input file is correct but cannot get any results, please email me your input files and detail your problem.**

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