Midterm Takehome Exam
Psychology 594
Multivariate Analysis

The attached excerpt from the book by Martinez and Martinez discusses classical Multidimensional Scaling (MDS) using Torgerson's method and a strategy from Jan de Leeuw called SMACOF (and implemented in a recent R package called `smacof`). Carry out a comparison (including a Procrustes transformation and the resulting plots) between the Torgerson and SMACOF approaches for the Ekman and Lincoln Eighth Circuit data. You may be interested in the M-file, `smacof.m`, available at

`http://cda.psych.uiuc.edu/594_datafiles`

which includes the relevant code from the Martinez and Martinez source (without the comments). It is also attached in hard copy.