

Multivariate Analysis: Final Exam

Due on 6/21/2018 in class

Announcement: Please follow the guidelines when writing your report:

- The presentation should be as formal as possible (with a title page, names and IDs, and necessary outputs and plots);
- Please (i) clearly address the problem; (ii) clearly describe the basic ideas of each method you use; (iii) clearly introduce every step required to approach the answer; (iv) carefully interpret the results.
- **Do not** attach any R code in your report;
- Writing either in English or Chinese is fine.

2) Perform the following multidimensional scaling (MDS) analysis for the data set “[Seeds.txt](#)” by using all variables X_1, \dots, X_7 and Y :

- (1) Classical Torgerson-Gower MDS;
- (2) Kruskal and Shepard’s nonmetric MDS based on isotonic regression.

Comment on the quality of goodness of fit and compare the solutions of these two methods.