



EXERCISES SESSION 6

The purpose of this lab is to compare the different specifications of Multinomial Logit (MNL) models you tried in the exercises session 5 with some given examples and improve your best model by applying a socio-economic segmentation. The two possible datasets are *Airline Itinerary Choice (Boeing)* and *Optima mode choice*.

Question 1

Compare the different non-linear specifications and tests you tried in exercises session 5 with the interpretations given on the course web site.

Question 2

Consider the best model you obtained at the end of exercises session 5 and perform the following tasks:

1. Try a socio-economic segmentation of the constant, which is equivalent to adding socio-economic parameters directly to the utilities. Is this segmentation significant?
2. Try a socio-economic segmentation of attributes of the alternatives one-by-one. Remember the difference between discrete and continuous segmentations. Are your segmentations significant?
3. Try a socio-economic segmentation of all parameters. How can you test if this segmentation is significant? Is a socio-economic segmentation of all parameters relevant?
4. Improve the model you developed in exercise session 5 using the results of the segmentations you tried above.