AMSA assignment

AMSA assignment

- Assignment: 5 page paper: problem definition, objective, data, analysis, interpretation (R-code not included)

- Put the R-code in annex

- Assignment together with the data (separate file in csv format), send by mail to eddie.schrevens@kuleuven.be at the latest 48 hours before examination time

- If data are confidential, please inform me. The best option is to change variable names to X1, X2, …   and change the data description

- Give the assignment and data your name: firstname_lastname.doc or pdf and csv

- You do not need to print the assignment or bring it to the exam

- Paper examples on Toledo

- The score on your assignment counts for ¼ of your examination score

AMSA assignment: objectives

- Show that you are able to analyse multivariate data with the methodologies for ordination, clustering and discrimination

- Demonstrate your R-skills

- Show that you can tackle the flow chain of a data science problem: define your objectives and select a multivariate analysis strategy, read data, preprocess and/or scale the data if necessary, apply multivariate statistical analyses and interpret the results

- Try to be as authentic and creative as possible in your approach. The demo programs on Toledo are just a guideline

- Show you can extend the methodologies of the lectures to a higher level concerning methodology, graphics, presentation of results, …

AMSA assignment
Interesting R-packages

- To boost creativity and originality

  - FactoMineR

  - vegan

  - cluster

  - caret

  - faraway

Forbidden data

Data from the following websites can not be used in any assignment:

University California Irving Machine Learning Repository

https://archive.ics.uci.edu/ml/index.php

https://kagge datasetsarchive.ics.uci.edu/ml/index.php

Kaggle: Your Home for Data Science

https://www.kaggle.com/