

## LAB SESSION 8

### Outline of lab session:

- follow-up from Lecture 8: questions and/or requests for demonstrations (Minitab),
- extra demonstrations (Stata/R) for the lecture methods,
- you work on the exercises on your own (check the solutions!): addMV:4,5 (addMV:6, exam2012:3)
  - \* exam2012:3: regression problem (only for students not in VHM 812),
  - \* maybe catch-up from last session: addMV:3 (the Iris data from the lecture).
- do we want to discuss in class at the end (e.g. 3:30pm)?

Home assignments: # 3 (for everyone) due today; # 4 to be posted later this week.

### What you should be able to do after today's session...

- compute multivariate distances between multivariate data points, interpret such distances, and assess their validity,
- use multidimensional scaling, hierarchical cluster analysis and  $K$ -means clustering algorithms to determine and visualize clusters based on multivariate distances.