

Analysis of Variance using SPSS and R

Course: July 12 - 15, 2010

Coordinator: Dr. Irene Klugkist

Lecturers: Dr. Laurence Frank, Prof.dr. Herbert Hoijtink, Dr. Irene Klugkist.

DAY TO DAY PROGRAMME

Monday

- 9:00 - 12:30 Course introduction
The Analysis of Variance model (ANOVA)
+ Power
+ Post-hoc testing and alpha-corrections
Introduction to R
- 14.00 - 17:00 Computer lab using SPSS and the SPSS interface to R

Tuesday

- 9:00 - 12:30 Including a covariate in the ANOVA design: ANCOVA
+ The regression model
+ Power
+ Outliers
Factorial designs and interaction effects
- 14.00 - 17:00 Computer lab using SPSS and the SPSS interface to R

Wednesday

- 9:00 - 12:30 Between and within factors: Repeated measures ANOVA
+ Planned comparisons
Power in multiple testing situations
- 14.00 - 17:00 Computer lab using SPSS and the SPSS interface to R

Thursday

- 9:00 - 12:30 Introduction to Bayesian evaluation of informative hypotheses
- 14.00 - 17:00 Computer lab using tailor-made software for informative hypotheses