Tilastollisen oppimisen jatkokurssi 2018–2019 Advanced statistical learning 2018–2019

Round 5, 28.1.-10.2.

Topics:

- Unsupervised learning
- Dimension reduction
- Principal component analysis and principal component regression
- Partial least squares
- K-means and hierarchial clustering

Material:

- ISLR chapters 6.3, 10.1–10.3
- \bullet ISLR videos 6.9–6.10 and 10.1–10.5
- FDP videos: -
- \bullet ESLR chapters 3.5, 14 (especially 14.3 and 14.5)

Exercises

- 1. ISLR 6.9, parts (a) and (e)–(f) and compare results to Round 1.
- 2. ISLR 6.11 with the PCR (cf. Round 1)
- 3. ISLR 10.3
- $4.\ \mathrm{ISLR}\ 10.9$
- $5.~\mathrm{ISLR}~10.10$