Syllabus of Data science technology and applications with R

Peng Zhang

2020.09.14

Instructors

Prof. Peng Zhang, School of Mathematical Sciences, Zhejiang University

Lecture

September 14 to November 11, 2020 13:15–16:40, Sci4-617

Grading

Labs: 10% Homework: 30% Final exam knowledge: 30% Final exam programming: 30%

Topics

1. R, RStudio, Git, RMarkdown
2. Data types and data structures
3. Visualization
4. Data wrangling
5. Flow control and looping
6. Writing and calling functions
7. Fitting and using statistical models
8. Simulation, MCMC
9. Optimization