COURSE SYLLABUS

Computational Statistics

2021-3-E4101B041

Learning objectives

The aim of the course is to illustrate the main computational statistical tools which are fundamental for modeling and data analyzing data.

Contents

Mixture-based clustering and classification methods.

Detailed program

Mixture models. Model-based clustering. Model-based classification. Mixture of experts models. Data visualization.

Prerequisites

Knowledge of the notions given in the courses "Multivariate Statistics" and "Statistics III" is recommended.

Teaching methods

Class lectures and lab sessions.

Assessment methods

Final homework and written exam.

Textbooks and Reading Materials

- ⎯⎯⎯
- McLahan-Peel (2000) Finite_Mixture_Models
- Kabacoff (2018) Data Visualization with R

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Semester

The course is scheduled in the first part (six weeks) of the second semester.

Teaching language

Italian