ondalys

Training session

Multi-block analysis on Unscrambler®

Learn about chemometrics methods for multi-block data

Objectives

This training session on multivariate data analysis is intended for people wishing to:
- Deepen their knowledge in processing data organized in blocks
- Be quickly autonomous in multi-block data treatment for exploratory and quantitative analysis
- Assimilate the key steps of data analysis methodology

During the training, the method principles are introduced by a geometric approach. Emphasis is placed on the practical use of the method and the interpretation of the results.

Application exercises are proposed for each method. The training will be held on Unscrambler® (Camo Analytics).

Information

Know the basics of multivariate data analysis (PCA, PLS) and univariate statistics

R&D, quality control, product development, process optimization, …

Any data

1 day

In-house sessions

Researchers, scientists and engineers

Agriculture / food, Petrochemical, Pharmaceutical, Biotechnology, Chemistry, Environment…
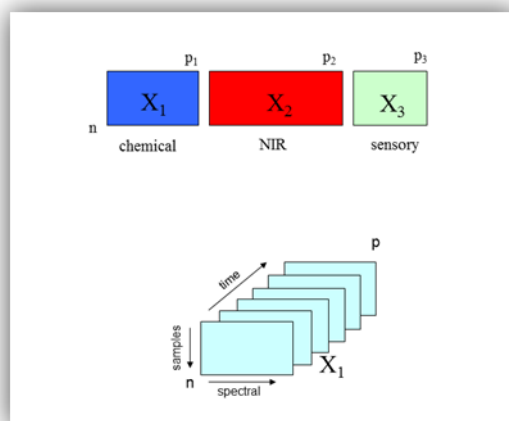
Program

Data preparation

- ➢ Multi-block data structure
- ➢ Reduction of dimensions
- ➢ Data fusion
- ➢ Definition of modeling strategy
  - ✓ *Application on data set and software*

Exploratory multi-block analysis

- ➢ Weighting of variables
- ➢ Principal Components Analysis (PCA)
- ➢ Examples
  - ✓ *Application on data set and software*

Quantitative multi-block analysis

- ➢ Weighting of variables
- ➢ Partial Least Squares (PLS)
- ➢ Examples
  - ✓ *Application on data set and software*

📅 **In-house sessions**

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