ondalys

Training session

Calibration transfer for spectral data

Improve your knowledge in spectroscopic transfer methods to optimize your model robustness

Objectives

This training session in spectroscopic calibration transfer is designed for people who wish to:

- Discover how to optimize model robustness using spectral calibration transfer methods,
- Become proficient in performing spectroscopic calibration transfers,
- Understand the key steps of the inter-instrument transfer methodology.

PRE-REQUISITE
Basics of data analysis (PCA, PLS) and univariate statistics are required

DURATION
1 day

DATA
Spectroscopic data (NIR, MIR, Raman, UV, …)

SESSION
In-house session

TARGET AUDIENCE
Researchers, scientists and engineers

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

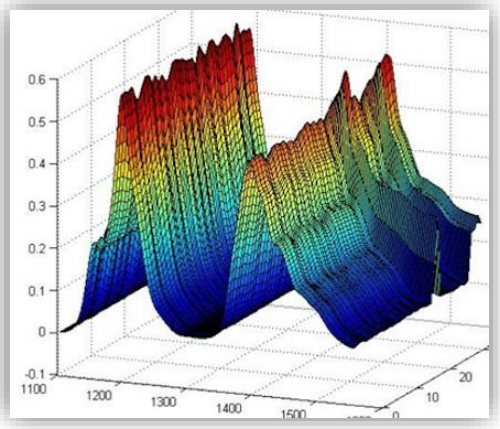
APPLICATION FIELDS
Agriculture / food, Petrochemical, Pharmaceutical, Biotechnology, Chemistry, Environment, …

During the training, the method principles are introduced using a geometric approach. Focus is placed on the practical application of the methods and the result interpretation.
Application exercises are provided on a dataset for each method. The training will be given using Solo® or PLS Toolbox® software (Eigenvector Research Inc.).

PLS_Toolbox Solo

Program

- Chemometrics reminders:
  - Spectroscopy
  - PCA – Principal Component Analysis
  - PLS – Partial Least Squares Regression
- General problem: Robustness
- Approach
  - Standardization Set
  - Data Observation
- Methods for improving Robustness
  - Exhaustive Model
  - Post-Regression Transfer Method (Bias/Slope)
  - Pre-Regression Transfer Method (Optical Corrections)
  - Orthogonalization Methods



  - ✓ *Application on data set and software*
- Questions and Answers
- Evaluation quiz
- Satisfaction survey

☎ : +33 (0)4 67 67 97 87
✉ : formation@ondalys.fr

If one of your employees is disabled and needs a specific welcome, please let us know so that we can adapt the training accordingly.