

# Training session

## Machine Learning - SVM

### Discover the Support Vector Machines (SVM)

#### Objectives

This training session on SVM method is intended for people wishing to:

- Learn the basics of Support Vector Machines method
- Be quickly autonomous in data processing
- Be autonomous to use the data analysis software studied

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 can be held on various Chemometrics software: SOLO or PLS\_Toolbox® (Eigenvector Research Inc).

#### Information



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



1 day



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



In-house sessions



Instrumental data, physico-chemical data, process parameters, ...



Researchers, scientists and engineers



Agriculture / food, Petrochemical, Pharmaceutical, Biotechnology, Chemistry, Environment, ...

## Program

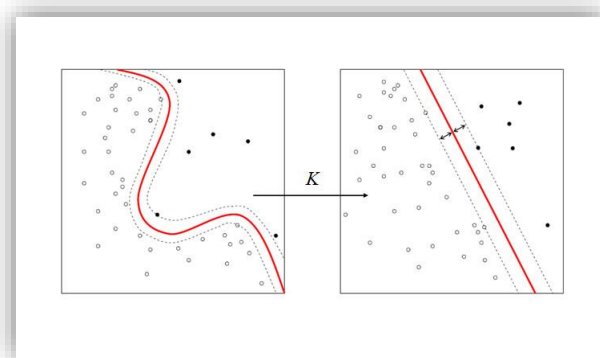
### General introduction to non-linear issues

- Definition
- Dealing with non-linearities
- Method review



### Support Vector Machines (SVM)

- Discrimination
  - Regression
- ✓ Application on data set and software



In-house sessions

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