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Training session

Hyperspectral image analysis

Learn the analytical methods dedicated to hyperspectral images

Objectives

This training in hyperspectral image processing is intended for people who wish to:

- Apply their knowledge of Machine Learning to hyperspectral data
- Know the preprocessing specific to images
- Use by themselves the studied software of image analysis

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

Application exercises are proposed for each method. The training will be held on software dedicated to hyperspectral image analysis: SOLO+MIA® or MIA_Toolbox® from Eigenvector Research Inc.

MIA_Toolbox
Multivariate Image Analysis add-on for PLS_Toolbox

Informations pratiques

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

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

NIR, IR and Raman hyperspectral images

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

1 day

In-house sessions

Researchers, scientists and engineers

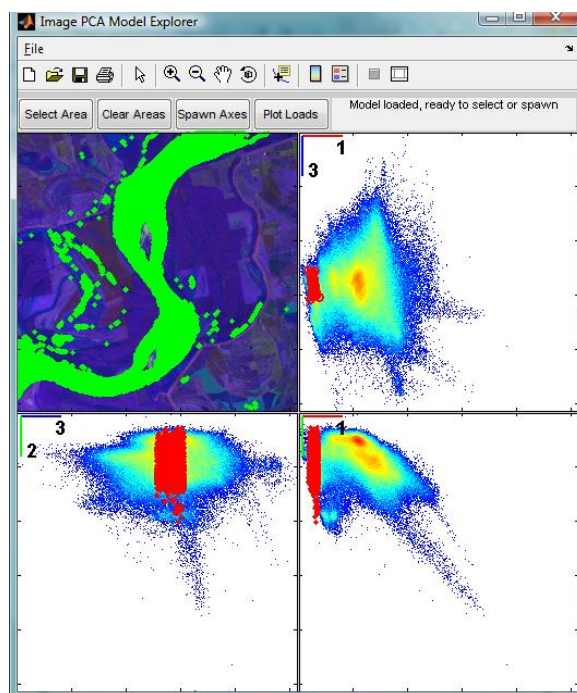# Training program

> 3D data and visualization

> Tools for simple analysis using the MIA®

> PCA on hyperspectral images

> Classification on hyperspectral images

> PLS on hyperspectral images

> Particle analysis

Application on data set and software

> Questions and answers on uncontrolled points

> Prior learning assessment

> Satisfaction quiz

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📅 **In-house sessions**

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

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