School of Multivariate Analysis– Genoa, 13-17 January 2020.

Aula Passadore (1st floor), c/o Department of Economy, Via Vivaldi, 5 - Darsena - 16126 GE

Program:

Day 1. **10-12.30 (Optional)**
Basics of univariate statistics. Introduction to Experimental Design.
14-15
Introduction of the school and presentation of the participants.
15-18
Principal Component Analysis (PCA).

Day 2. **9–11**
Diagnostics of principal components. Introduction to Multivariate Quality Control and Multivariate Process Monitoring
11-13
Introduction to supervised methods. Validation Strategies. Data pretreataments.
14.30-16.30
Presentation of CAT software. Description of datasets chosen for practical sessions.
16.30-18
Teamwork.

Day 3. **9-13**
Classification Analysis and Class Modelling strategies.
14.30 -16
Guided exercitation about classification and class modelling.
16 -18
Teamwork.

Day 4. **9–11**
Univariate linear regression. Multivariate regression: MLR, PCR, PLS.
11 -13
Refining of egression models. Strategies of variable selection. Hints about PLS-DA.
14.30 -16
Guided exercitation about regression methods.
16 -18
Teamwork.

Day 5. **9–11**
N-way methods. Data Fusion
11–13
Presentation of teamwork results. Closing remarks

Società Chimica Italiana
Divisione di Chimica Analitica

Gruppo Divisionale di Chemiometria