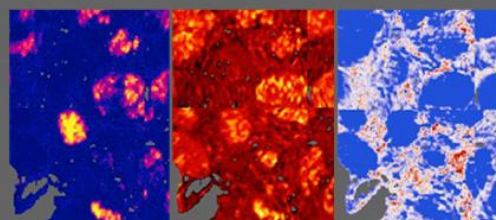


StatIR 7

Analysis of IR microspectroscopy data
by multivariate statistical analysis and machine learning

16-18 october 2023 - Synchrotron SOLEIL



Program

	Monday, October 16	Tuesday, October 17 Supervised learning	Wednesday, October 18 Unsupervised learning
9:00	Session 1 Getting started with Quasar (installation, basic Orange and Quasar functionality) <i>Speaker: C Sandt, M Toplak</i>	Session 1 Introduction to supervised and unsupervised learning <i>Speaker: C Sandt</i>	Session 1 Quantification <i>Speaker: C Sandt</i>
10:30	<i>Coffee Break</i>	<i>Coffee Break</i>	<i>Coffee Break</i>
10:45	Session 2 Spectral Preprocessing Visualization – mapping and imaging, univariate analysis <i>Speaker: F Borondics</i>	Session 2 Classification of spectra and hyperspectral datasets using various methods <i>Speaker: F Borondics</i>	Session 2 Clustering of spectra and hyperspectral datasets using various methods <i>Speaker: M Toplak</i>
12:00 13:30	<i>Lunch break</i>	<i>Lunch break</i>	
13:30	Session 3 Statistical data exploration PCA, PCA visualization PCA imaging <i>Speaker: C Sandt</i>	Session 3 Model inspection and cross- validation Prediction Common errors <i>Speaker: M Toplak</i>	
15:30	<i>Coffee Break</i>	<i>Coffee Break</i>	
16:00	Session 4 Hands-on work with participants' data	Session 4 Hands-on work with participants' data	
19:00	<i>Diner at SOLEIL restaurant</i>	<i>Diner at SOLEIL restaurant</i>	