STAT-IR 6
ANALYSIS OF IR MICROSPECTROSCOPY DATA BY MULTIVARIATE STATISTICAL ANALYSIS AND MACHINE LEARNING

Preliminary Progamm

		May 11th	May 12th Supervised learning	May 13th Unsupervised learning
Session 1	9:00	Getting started with Quasar (installation, basic Orange and Quasar functionality)	Introduction to supervised learning	Introduction to unsupervised learning
Break	*10:30*			
Session 2	10:45	Spectral Preprocessing Visualization – mapping and imaging	Classification of spectra and hyperspectral datasets using various methods	Clustering of spectra and hyperspectral datasets using various methods
Lunch break	*12:00 13:30*			
Session 3	13:30	Statistical data exploration PCA, PCA visualization PCA imaging	Model inspection and cross-validation Prediction Common errors	
Break	*15:30*			
Session 4	16:00	Hands-on work with participants' data	Hands-on work with participants' data	