

Performing Image Classification (Sessions 1013 / 1363)

Goals of the workshop

- Understand why perform a classification and the considerations when doing so.
- Become familiar with the multi-step process involved in performing a classification, the many tools and decision points, and how to integrate them into a workflow.
- Gain insight into how to make a more accurate classification.
- Examine the distinction between a supervised and an unsupervised classification.
- Introduce the Image Classification toolbar.

Major topics covered

- Define the differences between a supervised and an unsupervised classification and when to use each.
- Discuss the steps and considerations for a supervised classification:
 - Creating training sets
 - Calculating the signature files
 - Evaluating and editing signature files
 - Performing the classification
 - Validating the classification.
- Identify workflow and decision points for an unsupervised classification:
 - Creating clusters
 - Evaluating and editing signature files
 - Performing the classification
 - Interpreting the classification.
- Demonstrations of how to use the Image Classification toolbar to perform a classification
 - How to explore your input data
 - How to create training samples
 - How to produce and evaluate signature files
 - How to implement both supervised and unsupervised classifications.