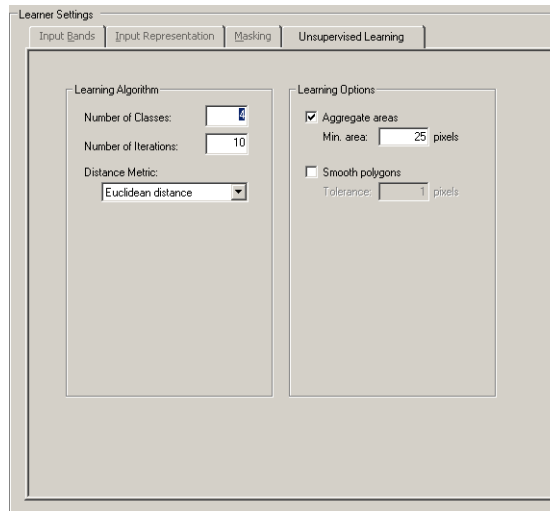


## UNSUPERVISED CLASSIFICATION

Unsupervised classification allows you to start an extraction pass without building a training set. Simply identify the number of feature classes within the image.

- 1 Highlight your image in the Table of Contents and choose **Unsupervised Classification** on the Learning menu.



*The Unsupervised Learning Setup dialog box opens, with the Input Bands tab pre-selected.*

Feature Analyst automatically enters all bands in the Bands Selected scroll box on the Input Bands tab. You can override these settings or accept the defaults.

- 2 Choose the **Input Representation** tab.

The system has also set a default input pattern and width. You can override the default if you think it will provide better results.

- 3 Choose the **Masking** tab.

You can mask a portion of the image for extraction or you can accept the default.

- 4 Choose the **Unsupervised Learning** tab.

- 5 Enter the **number of feature classes** you are looking for in the Number of Classes field.

- 6 Enter the **number of times** you want Feature Analyst to analyze the image in the Number of Iterations field.

- 7 In the Distance field, select **one of the two distance options**: Euclidean Distance and Correlation.

- 8 Choose **OK** to start the extraction pass.

*The Save Feature As dialog box opens, asking you to name the generated shape file and provide a path.*

- 9 Enter a **name and path** for the new shape file that will be created by the unsupervised extraction pass.
- 10 Choose **Save**.

*The new shape file appears in the Table of Contents, above your image layer.*

To fine-tune the results you will need to split out the various feature classes and run Hierarchical Learning or Post Processing.