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anthropogenic structures, mineral resources, or transient changes in any of these properties. Image Classification - Examples Numerous remote sensing change detection algorithms have been developed. Some of these include write function memory insertion, image algebra, multiple-date composite image change detection using principal component analysis, post-classification comparison, and spectral change vector analysis (Jensen, 2005).

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analysis, post-classification comparison, and spectral change vector analysis (Jensen, 2005).

### **Image Classification - Examples**

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Coincidentally, Im et al. (2008) compared three different change detection techniques, based on object/neighbourhood correlation, image analysis and image segmentation, with two different per-pixel approaches, and found that object based change classifications were superior (KIA up to 90%) compared to the other change detection results (KIA 80 to 85%).

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Image classification - background. Image classification is a means to convert spectral raster data into a finite set of classifications that represent the surface types seen in the imagery. These may be used to identify vegetation types, anthropogenic structures, mineral resources, or transient changes in any of these properties.

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Source files for the Docker image mort/crc4docker. Python scripts for the textbook "Image Analysis, Classification and Change Detection in Remote Sensing, Fourth Revised Edition" On Ubuntu, for example, pull and/or run the container for the first time with *Image Analysis, Classification and Change Detection in ...*

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This tutorial will introduce a simple procedure using ArcGIS Image Analysis for pre-classification change detection— other approaches are available for the more experienced student, and to examine other kinds of changes. We will be using

two images acquired over Pakistan to evaluate the changes due to river flooding.

### **Image Analysis Classification And Change**

Post-Classification (Thematic) Change Detection. One method of change detection is to first create two independent thematic rasters using supervised classification and a common set of classes. Change detection is then a simple matter of comparing the before class and the after class of each pixel. For example, if the class scheme consisted of 3 ...