

GEO 542: Introduction to Remote Sensing – Fall 2026

Workshop2: Pansharpening

The advent of remote sensing sensors that have the capability to simultaneously acquire multispectral and panchromatic data took a major step forward in 1999. Two systems, Landsat 7 and Ikonos were launched that allowed for image enhancement due to these data acquisition capabilities.

In this workshop, you will utilize the Pansharp function in ArcGIS Pro software to enhance both a Landsat 7 image and an Ikonos image. This function can be accessed through the Pansharpen tool. The results should be interesting in terms of improved spatial resolution. There may however be challenges with spectral resolution.

Copy the entire Workshop2 folder from the Z:\ drive to C:\temp. The image data are located in this folder.

