



Python Strings



Self-paced online course

Learn Hyperspectral Remote Sensing from the Scratch

cloudeo

Learn Hyperspectral Remote Sensing from the Scratch

cloudeo
official reseller

Provided by GEO University

● DESCRIPTION

This remote sensing online course is recommended for anyone who needs to understand and start working with hyperspectral data and imagery. Starting from a quick introduction about remote sensing and hyperspectral imaging, we continue to the various applications hyperspectral data are being used (from the Earth Observation perspective). At the core of the course, students get familiar with the main processing concepts and techniques applied to hyperspectral data, such as Spectral Mixing/Unmixing, labeling, Spectroscopy and Object Parameter Estimation.

INSTRUCTOR:

Dr. Dimitris Sykas, Remote Sensing Expert

What will you learn?

- ✓ Understand the principles of hyperspectral remote sensing.
- ✓ Understand spectral matching & labeling methods.
- ✓ Learn about the spectral unmixing process and what you can do with this.
- ✓ Become familiar with hyperspectral data processing concepts.
- ✓ Know at which Earth Observation applications hyperspectral data are used.
- ✓ Learn about spectroscopy and quantitative spectral analysis.

Key applications

● TRAIN YOUR COMPANY

Train newest members

Stay updated on GIS applications, Remote Sensing techniques and Space technologies

● RESEARCH & ACADEMIA

Fill in knowledge gaps

Continuing education on GIS applications, Remote Sensing algorithms and techniques and Space technologies

Key features

- ✓ Understand primary concepts, methods, and algorithms of imaging spectroscopy.
- ✓ Claim your Certificate of Completion with no extra cost.
- ✓ Even when you finish the course and you get your certificate, you will still have access to course contents.
- ✓ Study at your best time - online and always accessible.

01 Hyperspectral Remote Sensing explained



Principles of Hyperspectral or Imaging Spectroscopy concepts



Overview of Information Extraction Methods Categories



Hyperspectral Images



Satellites with Hyperspectral Imaging Capabilities

Hyperspectral Imaging 02

03 Spectral Mixture Analysis



Spectral Mixture Analysis



Spectral Unmixing: Step by step process



Dimensionality Estimation and Reduction



Endmember Extraction Algorithms



Abundance Estimation Algorithms

Spectral Unmixing Process 04

05 Spectral Matching and Labeling



Spectral Similarity Measures, Matching & Labeling



Spectral Similarity Measures



Spectral Pre-Processing Algorithms



Spectral Pre-Processing Algorithms



Spectral Matching and Labeling Process

Contact us for more information:



info@cloudeo.group

Click here to send us a quick email



www.cloudeo.group

.. or click here to contact us through our website.

cloudeo
official reseller