**[FineResults Research Services](http://fineresultsresearch.org/)** invites you to training on:

## Topics: [Digital Image processing using ENVI Course](https://bit.ly/3dFPkkq)

## Date: 10th to 21st August 2020

**Cost: USD 800 or Ksh 65000**

**Contacts: +254 759 285 295,** [**training@fineresultsresearch.org**](mailto:training@fineresultsresearch.org)**.**

**Venue :** **FineResults Research, Nairobi, Kenya Training Centre.**

**INTRODUCTION**

Image processing is a method to perform some operations on an image, in order to get an enhanced image or to extract some useful information from it. It is a type of signal processing in which input is an image and output may be image or characteristics/features associated with that image. Recently, image processing is among rapidly growing technologies. It forms core research area within engineering and computer science disciplines too. The participants will be taken through fundamental definitions such as image, digital image, and digital image processing. Different sources of digital images, image processing to computer vision and image acquisition and different types of image sensors shall be covered.

**DURATION**

10 days

**COURSE OBJECTIVES**

On completion of the course, participants will:

* Be proficient in the use of ENVI
* Understand and be able to undertake geometric referencing of images
* Understand and be able to display image composites for known purposes.
* Know about the potential of and procedures for image processing in a range of application areas
* Proficiency in image processing as outlined in this course is the basis for:
* Developing advanced image processing techniques
* Using image processing in a very wide array of applications with any type of digital image and with a range of software products

**COURSE OUTLINE**

**Module 1**

* Basis of Remote Sensing
* Market overview of existing satellites and lunch plan of new satellites (Landsat and Sentinel)
* Prospects for development of remote sensing

**Module 2**

* Active vs. Passive Remote Sensing
* ENVI main menu;
* Region of Interest tool (ROI)
* Masks

**Module 3**

* Image registration and orthorectification
* Geometric Correction: image to image and image to map
* Orthorectification;
* Reprojection data.

**Module 4**

* Georeferencing and mosaicking
* Automatic contrast
* Mosaicking
* Animation

**Module 5**

* Vector and raster data
* Editing vector data
* Getting information about vector from attribute table

**Module 6**

* Spectral Analysis
* Working with spectral libraries
* Spectral Transforms
* Atmospheric Correction

**Module 7**

* Thematic processing of remote sensing data
* Supervised and Unsupervised Classification;

**Module 8**

* Post Classification tools
* Accuracy assessment and ground truthing

**Module 9**

* Change Detection Analysis.

**Module 10**

* Normalized Difference Vegetation Index (NDVI)
* Mapping

NB: We are offering you a half day, fun and interactive team building event!

## **Be part of the Training**

* Click [**HERE**](https://bit.ly/2T93Jh1) for the individual registration.

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