PCI Geomatics to Provide SAR Imagery Analysis Training

PCI Geomatics, a world-leading developer of remote sensing and photogrammetric software and systems, has announced the availability of its Synthetic Aperture Radar (SAR) image analysis in Geomatica online training sessions. Participants in the course will explore data-processing techniques in Focus, a module of Geomatica. The course will take participants through basic techniques in ingesting, calibrating and displaying SAR data.

The course will also cover more advanced techniques, such as applying radiometric enhancements, processing detected data (single or dual polarization), performing unsupervised coherent and incoherent polarimetric decomposition, analysing polarimetric discriminators, and performing coherent change detection with polarimetric data.

The first session of this online course is being delivered in support of The Esri and PCI Natural Resources Imagery Grant Program. Program participants will be developing projects that increase efficiency, productivity, and accuracy in the use of SAR and optical imagery for detecting and analysing land-cover change.

There is strong interest in using SAR data in GIS workflows, said Punarvasu Pillalamarri, product manager at PCI Geomatics. This advanced course exploring data preparation, processing, and analysis techniques for working with SAR data is an excellent opportunity for GIS professionals to use SAR imagery in new ways.

SAR imagery provides a unique layer of information that is captured from active sensors, such as RADARSAT-2, TerraSAR-X, and other commercial space-borne SAR sensors, said John Wessels, Senior SAR Scientist at PCI Geomatics. New sources of SAR imagery are becoming available over the coming years, and PCI continues to lead the way in developing sensor-agnostic, powerful tools to extract information from SAR imagery, he added.

This course also covers the SAR Polarimetry Target Analysis (SPTA) tool. Participants will use the tool to define a series of targets and perform an in-depth analysis of their polarimetric properties. They will learn how to generate and analyse numerical and graphical outputs, including customised histogram and polarimetric response plots.

The SAR Image Analysis in Geomatica training programme is the latest in a series of instructor-led online training programs delivered by PCI Geomatics throughout the year. For a complete listing of course descriptions, dates, and times, visit www.pcigeomatics.com/training.

https://www.gim-international.com/content/news/pci-geomatics-to-provide-sar-imagery-analysis-training