ENVI® FEATURE EXTRACTION MODULE

FIND FEATURES IN YOUR GEOSPATIAL IMAGERY QUICKLY AND EASILY

BENEFITS

Modern technology

Quick and easy workflows

Accurate results

Finding objects in an image scene, (feature extraction), is a very useful capability in geospatial imagery workflows. Previous processes for extracting features from an image were complex and time consuming. Now, Harris Geospatial provides a technologically advanced approach to feature extraction that saves time and effort, while providing the accurate results you need.
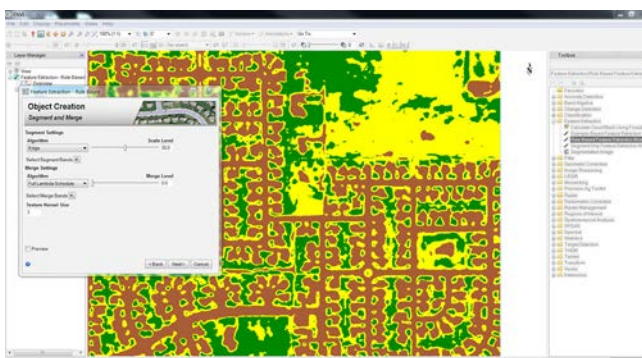
Feature extraction has a variety of practical applications, allowing you to isolate only the objects you're interested in, like roads, coastlines, buildings, and vehicles.

The ENVI Feature Extraction Module (ENVI FX) allows you to quickly and easily extract features from high-resolution imagery. ENVI FX walks you through the extraction process from image ingest to the export of results, and allows you to extract the features you need. Rapid rendering preview screens readily allow for adjustments at any point in the workflow. And, ENVI FX is built with a high performance image processing engine to deliver fast results, even with large datasets.

An intuitive dialog box at the beginning of the ENVI FX workflow prompts you to import a base image, ancillary data, and a mask file.

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HARRIS® TECHNOLOGY TO CONNECT, INFORM AND PROTECT™

SAVE, REPEAT, OR SHARE THE OUTCOME

ENVI FX allows you to share results at all stages of the workflow. Easily use the results for further analysis, for reports, to shared with colleagues.

- Easily save vector results to a geodatabase for use in subsequent analyses in ENVI or for use with other products
- Combine multiple types of data, such as LiDAR or elevation data, with your input data source for increased accuracy
- Save training data, classifications, and rules sets to create a library for use in subsequent workflows or to share with colleagues
- Employ a programmatic method for batch processing so you can automatically extract features from multiple datasets simply by setting parameters and specifying an output directory

INDUSTRY SOLUTIONS WITH THE ENVI FEATURE EXTRACTION MODULE (ENVI FX)

GIS professionals and image analysts in virtually every industry, including urban planning, defense and intelligence, agriculture, and forestry, increasingly use geospatial imagery to find important information about geographic areas of interest. No longer simply a backdrop to a map, imagery is quickly evolving as a key analysis component in the GIS workflow.

The ability to find and extract features from imagery is a particularly useful capability. ENVI FX combines an intuitive interface with automated workflows and faster processing times to make feature extraction accessible to users of any experience level.

Regional and Urban Planning

- Measure encroachment
- Inventory urban landscape features like buildings and roads
- Identify large land cover classes to generate a vegetation map

Forestry

- Monitor forest health
- Identify invasive species
- Track and enforce logging restrictions
- Assess fire damage

Oil/Gas/Petroleum

- Manage assets
- Map sites
- Explore remote areas
- Classify land cover
- Assess environmental impact
- Map geomorphology

Defense and Intelligence

- Find tanks, helicopters, and other military vehicles
- Find roads and coastlines for mission planning
- Identify landing strips
- Locate buildings

Environment and Conservation

- Monitor coastal conditions
- Identify zones of de-vegetation associated with extraction and urban encroachment
- Detect ice boundaries

Disaster Management

- Measure flood extent
- Assess coastal damage after hurricanes
- Find fire boundaries

About Harris Corporation
Harris Corporation is a leading technology innovator, solving customers' toughest mission-critical challenges by providing solutions that connect, inform and protect. Harris supports government and commercial customers in more than 100 countries and has approximately $6 billion in annual revenue. The company is organized into three business segments: Communication Systems, Space and Intelligence Systems and Electronic Systems.
Learn more at Harris.com.

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