

TRIMBLE eCOGNITION

eCognition Developer - Fundamentals

Training Overview

Version 9.1

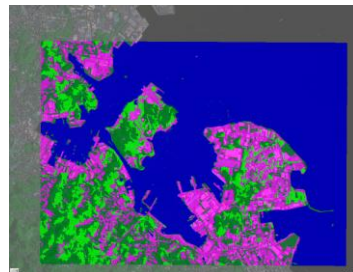
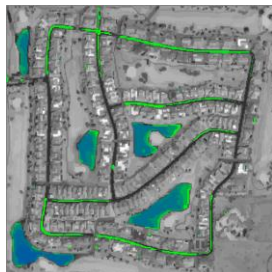
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Overview

This three day course is the ideal starting point to learn all the core concepts of OBIA (Object Based Image Analysis) and the fundamental tools and functions required to become a proficient RuleSet developer within eCognition Developer.

The participant is guided through general theory, followed by hands-on exercises designed to emphasize both the how and why of RuleSet development. The goal of this training is to provide attendees the capability to setup an image analysis workflow and the knowledge of when to use which tool to achieve the desired results with their own data.



Content

eCognition Developer – Fundamentals covers all the core functionalities and methods, from loading data to exporting results. Different sensor types and input data formats are used during the hands-on exercises.

Fundamental topics covered include:

- Introduction to OBIA
- Loading & viewing data
- Working with Projects & Workspaces
- Introduction to “Processes”
- Core segmentation techniques
- Image objects as information carriers
- Fundamental classification techniques
- Image object refinement algorithms
- The integration of thematic layers

In addition, the course will introduce tools and algorithms for more complex classification methods and will walk participants through a typical land cover classification analysis:

- Using customized features
- Introduction to fuzzy logic & membership functions
- Sample-based classification models
- Sample dataset creation & handling
- Manual image object editing
- Refinement using “remove objects” & “grow region”
- RuleSet structure & organization
- Reusing & documenting RuleSets

Format/Price

This three day instructor-led training is available as an open training or in-company training (max. 10 participants). The price is available upon request (eCognition_Training@trimble.com).

Prerequisites & recommendations

We recommend that participants have a solid understanding of remote sensing and GIS procedures and components; familiarity with image analysis is advantageous, but not required. Each participant is responsible for bringing a laptop that meets the eCognition system requirements.