



eCognition 8.7: New geo-information extraction capabilities

eCognition enables geodata analysts to fuse and analyze earth observation data to generate GIS-ready information. In its latest release, the eCognition software suite features numerous new features including: Selective 3D, new point cloud analysis functionality, advanced machine learning classification techniques and an improved rule set development environment. In this presentation Christian Weise, Product Manager for eCognition, will highlight these features and provide insights into how they can improve your geodata analysis.

eCognition 8.7 Highlights

New point cloud features enable 2D raster and vector data to be combined with statistical attributes derived directly from 3D point clouds. This makes it possible to combine raster imagery, point cloud information and all kinds of other geospatial data into a streamlined analysis. eCognition 8.7 also incorporates state-of-the-art machine learning techniques to supplement the object classification rule set environment. Classification and regression tree (CART) and support vector machines (SVM) enable sophisticated data patterns to be detected with greater autonomy than previously possible. The capabilities are specifically designed to tackle complex analysis problems, such as those utilizing hyperspectral data or large scale land cover projects. eCognition's improved development environment allows more flexible and powerful rule sets and applications to be built leveraging new functionalities and improvements, such as arrays for adapting rule sets to varying input data while ensuring rule set maintainability.

About Trimble's GeoSpatial Division

Trimble applies geospatial technologies to a variety of industry-specific workflows, enabling the seamless creation of geo-information from raw data. Trimble's land and aerial mobile sensors capture geo-referenced images and point clouds that are interpreted using Trimble's production-scale photogrammetry, terrain modeling and feature extraction software. The resulting high-fidelity models increase business productivity and improve decision-making for a diverse community of global customers, including aerial and land mapping service companies, governments, utilities and transportation. For more information, visit: www.trimble.com/geospatial.

About Trimble

Trimble applies technology to make field and mobile workers in businesses and government significantly more productive. Solutions are focused on applications requiring position or location—including surveying, construction, agriculture, fleet and asset management, public safety and mapping. In addition to utilizing positioning technologies, such as GPS, lasers and optics, Trimble solutions may include software content specific to the needs of the user. Wireless technologies are utilized to deliver the solution to the user and to ensure a tight coupling of the field and the back office. Founded in 1978, Trimble is headquartered in Sunnyvale, Calif.