

GIM

Lidar Fusion for Geospatial I Community



CG2 has presented Lidar Fusion GEOINT, a powerful tool for visualizing 3D point clouds from Laser Range data, stereo data and imagery. The package combines the 3D volumetric detail of point cloud data with the colour and shading from satellite imagery of the area. In addition to importing multiple overlapping LAS and GeoTIFF files, Lidar Fusion can load PLY files used for robotics applications.

"Lidar Fusion GEOINT is designed to give the geospatial intelligence community a powerful tool for visualizing and analyzing Lidar information," said Dr. Lisa Spencer, CTO of CG². "Lidar Fusion GEOINT is a versatile tool for analyzing 3D point data, whether you

have raw or processed data from any angle of capture (nadir or oblique), at any altitude, with one or multiple overlapping data sources."

The solution also supports visualisation of 3D stereo data to incorporate 360 degree street-level imagery. Each pixel in the high-resolution panorama includes associated 3D stereo data that can be fused with Lidar data to create unique, navigable 3D environments.

A stereo mapping data collection effort in Washington, D.C. was recently completed; Lidar Fusion GEOINT can visualise this new data set with full 3D interaction. This single perspective street-level snapshot can be merged with snapshots from other camera angles to complete any gaps in the interactive 3D scene.

Additional features for version 2.0 of LIDAR Fusion GEOINT include fast load times with greater capacity compared to earlier versions, Google Earth correlation and built-in tutorials.

The Lidar Fusion GEOINT trial version is downloadable with features to load and analyse data.

https://www.gim-international.com/content/news/lidar-fusion-for-geospatial-i-community