

Mapping For All Seasons
&
Generating 3D By Combining Airborne And Tripod-Mounted LiDAR Data

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Introduction:

Laser technology has revolutionized the mapping industry – LiDAR (Light Detection and Ranging) has emerged as a proven technology for providing and complimenting mapping products. It is not only an efficient means of providing accurate data but also a flexible method of accomplishing an aerial survey without regard to season or time of day. Laser scanning provides structural and topographic detail previously unheard of. Airborne laser scanners collect accurate geo-referenced topographic data of large areas very quickly, while tripod-mounted laser scanner systems generate very dense, geometrically accurate data. Used in tandem, these scanners make it possible to generate complete solid models that are geometrically accurate on all surfaces. This presentation documents the processing and fusing of airborne and tripod-mounted data.