

Data Quality Considerations that Allow Automated Modeling of UAS Point Clouds.

Jennifer Triana (USA)

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SUMMARY

With the expansion of geospatial drone market in the transportation industry, we explore how to achieve a more automated feature extraction process in topography mapping. Drone based point clouds from LiDAR vary greatly from Imagery based point clouds, so this presentation aims to explore their differences from the point cloud processing aspect. We will examine the pros and cons of each system for practical survey and mapping applications such as topographies, bare earth, volumetrics, etc. Learn how data accuracy, density, intensity/color, and other data characteristics affect a deliverable. We'll also show how to evaluate whether the data meets quality requirements for a certain application, and if it is suitable for automated feature extraction. Examples of automated extraction of break lines, surface models and asset identification will be demonstrated.

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