Enhancing LiDAR Products: Quality Assessment, Optimization, and Innovative Approaches

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SUMMARY

This article presents a case study on enhancing LiDAR products through quality assessment, optimization, and innovative approaches. Over the past two years, more than 312,000 square kilometers of LiDAR data were captured in Queensland, Australia. These datasets have been thoroughly checked, converted into various derivative products, archived in AWS cloud , and made accessible through different online and offline platforms.

As part of the QA process, a new in-house method was developed, leading to the creation of new products such as the canopy height model and building outlines, which were published on the online platform.

In this article, we will demonstrate how the datasets were validated, the types of products generated, and how different organizations have utilized these datasets for various purposes.

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