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Thread: [Accurate Forest Mapping Using TreeLearn and Lidar-Based Point Clouds](#)

Stanley - October 8, 2025, 12:35 pm

Accurate Forest Mapping Using TreeLearn and Lidar-Based Point Clouds

This study introduces TreeLearn, a 3D deep learning framework for segmenting and classifying individual trees in Lidar-based forest point clouds. Using high-resolution UAV, TLS, and MLS datasets from diverse global forests, TreeLearn distinguishes between tree and non-tree points with high accuracy. It applies offset prediction and clustering to identify tree instances and was tested across different forest types to evaluate domain transferability. Results show that TreeLearn effectively handles complex canopy structures and variable data sources, setting a new benchmark for automated forest mapping and analysis.

<https://hackernoon.com/accurate-forest-mapping-using-treelearn-and-lidar-based-point-clouds?source=rss>

Vectura - October 8, 2025, 2:01 pm

Really cool to see how Lidar and deep learning are being combined for forest mapping. TreeLearn looks like a big step toward more accurate environmental monitoring.

Fish - October 9, 2025, 2:52 am

Impressive. Combining Lidar and deep learning like this could really change how we monitor forests.

Hackers - October 26, 2025, 6:56 am

(Oct 9, 2025 02:52 AM)Fish Wrote: [\[CITE\]](#) Impressive. Combining Lidar and deep learning like this could really change how we monitor forests.

A lot more than that too... Archaeology, storm recovery, flood or disaster rescue missions, etc. Mapping accurately has so many benefits tbh