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A NOVEL APPROACH FOR SEGMENTATION OF AIRBORNE LASER SCANNED POINT CLOUD LOCATED ON ROOF STRUCTURE

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Abstract. This paper is addressed to an approach for segmenting airborne laser scanning point cloud of an input roof into several segments that are corresponding to different roof types. A novel algorithm is developed based on the assumption that every non-flat roof can be decomposed into a flat roof and a hipped roof. The process detects roof ridges at first, and then detects points along the ridges. The proposed method shows high efficiency and low error segmentation of the point cloud.

[Conference Paper](#) (PDF, 661 KB)

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