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(57) Abstract :
METHOD FOR CONVERTING A THREE-DIMENSIONAL LIDAR DATASET TO A PROJECTION SHAPE, AND A MULTI-CHANNEL TWO-DIMENSIONAL IMAGE FOR PERFORMING SEGMENTATION A method for converting a three-dimensional lidar dataset to a projection shape, and a multi-channel two-dimensional image for performing segmentation. Combining a semantic segmentation frame of the vehicle-mounted point cloud and the image. Reconstructing the three-dimensional building fine geometry by integrating the onboard and onboard three-dimensional laser point clouds and the streetscape images. Acquiring and processing dense point cloud data, wherein the acquisition of initial data information of the surface of a target object is efficiently completed. Reconstructing the fine geometry of the three-dimensional building by integrating the airborne and vehicle-mounted three-dimensional laser point clouds and the streetscape images. Generating, by the processor, an attention region in the two-dimensional image data, the attention region marking an object of interest. Classify the object of interest based on a combination of features from the attention region of the two-dimensional image data and the three-dimensional depth data within and around the regressed boundary.

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