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(57) Abstract :
Material management in jobsites comprises a managerial practice that devotes a notable exertion to confirm the existence of proper amounts of materials and effectively facilitates their transition process in and out of jobsites. In jobsites, where materials are being received, stored, and relocated, it is critical to endlessly keep updated records of their quantity during project period. Such updated records permit practitioners to successfully identify insufficient materials in a timely manner. This invention provides an artificial intelligence based automated material management system for an effective material management in the jobsites. This system automatically senses and piece target objects in point cloud models via a deep learning-based approach and then map the semantic values onto point cloud models for 3D semantic segmentation.

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