

عنوان مقاله:

A survey of visual tracking systems in construction industry with an approach to effective material management

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خلاصه مقاله:

Construction projects, by their nature, have dynamic environments with constant movement of resources including laborers, materials, and equipment. Locating and tracking these resources is critical in construction applications for achieving productivity and safety on site. The current practice of tracking resources in construction is still largely dependent on manual systems, which often results in errors and delays jeopardizing entire projects. Therefore, inefficiency of the manual operations in reporting, recording and transferring field data in current tracking systems, which in turn adds to field overhead costs, is still an important management function especially on large construction projects. The performance of materials management can be further improved if information about materials can be collected in time, with ease and accuracy. This calls for development of more effective resource positioning and tracking solutions based on emerging automated technologies. In general, timely information about construction resources can assist in fast and effective real-time decision making. Emerging localization and tracking technologies have spurred research efforts leading to automated resource tracking and data acquisition for control and improvement of construction processes. In this paper we present an overview of different visual tracking methods, which could be applied to construction industry.

کلمات کلیدی:

Material management, Construction industry, visual sensing, Automated Material Tracking, Vision systems

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