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WORK CREW OPTIMIZATION WITH SLAM II

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ABSTRACT

Resource allocation, such as labor, plants and machinery, is crucial in construction planning. Most construction projects are complex and thus, its planning requires network scheduling techniques. However, optimal result is rather difficult to obtain with so many variances for every different construction project. This study focuses in optimizing working crew for the floor element, especially in the construction of multi storey buildings, by means of simulation. Data on crew size and their working efficiency were collected through site observations which were further analyzed by using a simulation model, SLAM II. Results obtained from this study revealed the application of SLAM II in optimizing the allocation of labour in construction scheduling.

KEYWORDS: Simulation, SLAM II, Work Crew, Optimization, Typical Floor Schedule