

Construction Information Visualization System Using nD CAD Model

Authors : Hyeon-seoung Kim, Sang-mi Park, Sun-ju Han, Leen-seok Kang

Abstract : The visualization technology of construction information using 3D and nD modeling can satisfy the visualization needs of each construction project participant. The nD CAD system is a tool that the construction information, such as construction schedule, cost and resource utilization, are simulated by 4D, 5D and 6D object formats based on 3D object. This study developed a methodology and simulation engine for nD CAD system for construction project management. It has improved functions such as built-in schedule generation, cost simulation of changed budget and built-in resource allocation comparing with the current systems. To develop an integrated nD CAD system, this study attempts an integrated method to link 5D and 6D objects based on 4D object.

Keywords : building information modeling, visual simulation, 3D object, nD CAD augmented reality

Conference Title : ICBSE 2015 : International Conference on Building Science and Engineering

Conference Location : Sydney, Australia

Conference Dates : December 10-11, 2015