

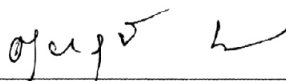
Wittaya Srisomboon 2008: Four-Dimensional Construction Project Planning with AutoCAD. Master of Engineering (Civil Engineering), Major Field: Civil Engineering, Department of Civil Engineering. Thesis Advisor: Mr. Suphawut Malaikrisanachalee, Ph.D. 88 pages.

Four-dimensional (4D) project planning system can effectively improve project planning, communication, coordination, visualization and simulation. 4D project planning system can be achieved by integrating a three-dimensional (3D) building model with project schedule.

This study investigates approach for implementing a 4D project planning system using AutoCAD together with Microsoft Project. System architecture, physical database model, and approach for converting AutoCAD's simple geometric objects to real construction objects as well as approach for linking the AutoCAD 3D solid model, project schedule from Microsoft Project and Microsoft Access are also presented. The eight-storey reinforced concrete parking building was used as a case study to simulate construction sequence as well as to detect time-space conflicts using the 4D project planning system that was developed.



Student's signature



Thesis Advisor's signature

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