

# 建築資訊模型(BIM)於營建數位管理之研究

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## 摘要

The information technology has been applied heavily in construction industry for quite a few years. The BIM (Building Information Model) is the one that has closely tied to the construction industry. Although using BIM in building design is not as popular as AUTOCAD, for the long-term future development, the BIM system, which can integrate graphic data and has 3D visualized design capability, will be the trend of using CAD (Computer Aided Design) in the construction industry. At present, the BIM system integrates different kinds of design drawings and data together, but, in essence, it is not so helpful in construction planning. Thus, the developmental trend in the construction trend will be how to apply BIM system to assist construction planning.

The purpose of this research is to develop a software program that can join the present BIM system and the project management system. This research, utilizing both the MS Visual Basic 2008 software developmental tool and the MS SQL Server 2008 database tool, tries to develop a software program that can generate the construction planning data such as WBS (Work Breakdown Structure) to be used in the project management software using the data in BIM. Making the BIM data to be used easily in construction management, the developed program will generate project schedule baseline and cost baseline to simplify the present construction planning routines for the contractors.

關鍵字：BIM, Project Management, Construction Management