Research on the Application of BIM Technology in the Construction and Management of the Hubai Development Building Project (Postprint)

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Abstract

BIM technology is a new technology leading the development of the construction industry following CAD technology. Its emergence has brought revolutionary transformation to the construction sector, with an increasing number of domestic construction enterprises currently learning and exploring its application. This paper analyzes the characteristics and challenges of the Huba Development Tower project, investigates the application of BIM technology in construction and management, explores the theoretical basis and implementation pathway for BIM technology deployment, presents specific application points including construction site layout, process simulation and construction deployment, and refined construction management based on BIM technology, and examines the innovative aspects of BIM technology in this project' s construction and management. Practice has demonstrated that integrating BIM technology with construction and project management can standardize management workflows, minimize variations in construction and project management caused by human factors to the greatest extent, achieve cost reduction and efficiency enhancement, ensure first-time quality excellence, realize the homogenization and refinement of project management, and provide impetus for enterprises to transform toward a technology-driven development path.

Full Text

Preamble

[This section contains only corrupted text and cannot be meaningfully translated.]

Note: Figure translations are in progress. See original paper for figures.