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Postprint: Research on BIM+ Model Integration with “Intelligent Construction” in the Construction Industry

Authors: Zhang Dazhen, Ji Shizhang, Huang Xiaodong

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Abstract

Based on the BIM foundation database, integrating GIS technology, 3D printing technology, 3D scanning technology, VR/AR technology, RFID technology, and others to research the extended applications of three-dimensional information models is critical for the transformation and upgrading of the construction industry under the new normal. By exploring the application of the “BIM+” model, this study investigates BIM-based real-time engineering data acquisition systems, BIM-based virtual and reality interactive verification systems, and BIM-based virtual and physical entity verification and validation systems. The combined application of these three systems establishes a solid data foundation for the “intelligent manufacturing” of China’s construction industry and the construction of smart cities.

Full Text

Preamble

[Content omitted due to severe encoding corruption]

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

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