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Application of BIM + VR Technology in the Development of Premium Residential Projects: Postprint

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Abstract

With the continuous advancement of digitalization in the construction industry, this paper, aiming to improve the construction quality of fine-decoration residential projects, enhance general contracting management capabilities, and elevate construction management levels, introduces the application of BIM + VR technology for creating high-quality residential engineering projects through a case study of the Tianjin Balizhou Country Garden Project. The content encompasses multiple aspects, including 3D visualization technical disclosure, standard floor virtual inspection, VR-level fine-decoration mock-ups, 3D quality information databases, auxiliary virtual acceptance, 4D schedule management, edge protection simulation, 3D site layout, and VR-level cloud platform management. Through the integrated application of BIM + VR technology, construction quality of fine-decoration residential projects has been improved, construction safety has been ensured, costs for physical mock-ups have been reduced, and refined management and green construction of fine-decoration residential projects have been achieved.

Full Text

Preamble

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

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