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The Relationship of Building Information Modeling (BIM) Capability in Quantity Surveying Practice and Project Performance

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Abstract : The adoption of building information modeling (BIM) is increasing in the construction industry. However, quantity surveyors are slow in adoption compared to other professions due to lack of awareness of the BIM's potential in their profession. It is still unclear on how BIM application can enhance quantity surveyors' work performance and project performance. The aim of this research is to identify the capabilities of BIM in quantity surveying practices and examine the relationship between BIM capabilities and project performance. Questionnaire survey and interviews were adopted for data collection. Literature reviews identified there are eleven BIM capabilities in quantity surveying practice. Questionnaire results showed that there are several BIM capabilities significantly correlated with project performance in time, cost and quality aspects and the results were validated through interviews. These findings show that BIM has the capabilities to enhance quantity surveyors' performances and subsequently improved project performance.

Keywords : Building Information Modeling (BIM), quantity surveyors, capability, project performance
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