

عنوان مقاله:

Determinants of Building Information Modeling Adoption: The case of the Malaysian Construction Industry

محل انتشار:

فصلنامه مديريتٌ فناوري اطلاعات, دوره 14, شماره 5 (سال: 1401)

تعداد صفحات اصل مقاله: 26

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خلاصه مقاله:

The Architecture, Engineering, and Construction (AEC) industry rely heavily on Building Information Modeling (BIM). BIM is the collection of Information and Communication Technologies (ICT), interacting policies, and procedures. BIM is a tool for managing digital project data during the life cycle of a building. Despite the many benefits and features of BIM, the Malaysian construction industry's proliferation is confronted with adoption issues. Therefore, this research study intends to find the effect of BIM adoption factors in Malaysian AEC. Quantitative data collection from construction firms is gathered. The proposed model's theoretical foundations are based on Technology, Organization Environment framework. The model is tested and validated with the Smart PLS tool. The study's findings indicate that Perceived benefits, Organizational Capabilities, and Trialability are drivers of BIM adoption. Perceived cost and Insecurity are the barriers to BIM adoption. Perceived ease of use and compatibility does not affect BIM adoption. Finally, this study performs Importance Performance Map Analysis to provide recommendations to AEC stakeholders .to address the BIM adoption issues for enhancing its diffusion in Malaysia

کلمات کلیدی:

Building Information Modeling (BIM), Influencing factors, BIM adoption Model, Technology Acceptance, BIM Adoption

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