عنوان مقاله:

Evolutionary of BIM and Integrated Sustainable Design Process From Hand-drafting to ID technology

محل انتشار:

کنفرانس بین المللی عمران، معماری و توسعه پایدار شهری (سال: 1392)

تعداد صفحات اصل مقاله: 14

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خلاصه مقاله:

Theoretical developments in Building Information Modelling (BIM) suggest that not only is it useful for geometric modelling of a building's performance but also that it can assist in the projectmanagement (PM) and sustainable design architecture. BIM and sustainable design both arechanging the way architects think about architecture. This paper reviews evolution of architecturalsoftware from hand-drafting to iBIM technology and demonstrates that BIM design process hasgreatest impact on constructions and can be easily applied to sustainable architecture. This paper will focus on the inspiring possibilities offered by digital software and fabrication for architecture, with classification all the different technologies and techniques that are now strongly impresscontemporary architecture and process of designs. The purpose of this paper is to explore theextent to which the use of BIM has resulted in sustainable design architecture and the application of the technologies and their adoption software in evolution of architecture design process. Alsothis paper proposes a 'BIM technology' based sustainable architecture to ensure 'best value' inconstruction projects. The findings indicate that in the sustainable architecture, there is a high potential for BIM benefits to be realized. Actual returns and investments will vary with each project. The evidence also suggests that there are varying levels of BIM implementation and adoption and therefore the need for a specific tool to facilitate integrated sustainable design.

کلمات کلیدی:

Building Information Modeling (BIM), Sustainable Design, Integrated Design (ID),architectural design

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