

عنوان مقاله:

A Comprehensive Review of BIM Implementation in Construction Contracts : reviewing Insights from Four Key Articles

محل انتشار:

سومین کنفرانس بین المللی معماری، عمران، شهرسازی، محیط زیست و افق های هنر اسلامی در بیانیه گام دوم انقلاب (سال: 1402)

تعداد صفحات اصل مقاله: 21

نویسندگان:

Mohammad Rabbani - Phd candidate in department of civil engineering, science and research branch Islamic azad University Tehran Iran

Mehdi Ravanshadnia, - Associate Professor of Construction Engineering and Management, department of civil engineering, science and research branch
Islamic azad university Tehran iran

Farhad saeedi - Assistant Professor of Construction Engineering and Management, department of civil engineering, science and research branch Islamic
azad university Tehran iran

خلاصه مقاله:

Building Information Modeling (BIM) is reshaping the construction industry, ushering in transformative improvements in project outcomes. Despite the increasing trend towards BIM adoption, questions linger about the adaptability of current legal frameworks to effectively accommodate and foster BIM practices. Traditional construction contracts struggle to align with BIM's collaborative nature, leading to potential contractual disputes that may impede its full integration and hinder anticipated productivity gains. This research aims to pinpoint the specific contract provisions essential for addressing BIM utilization in projects. It elucidates the primary contractual challenges linked with BIM and scrutinizes the current treatment of BIM in contractual documents, drawing insights from standard contract forms and BIM protocols. Employing a directed content analysis method, this study delves into three prominent standard contract forms tailored for BIM use, each approaching drafting from a distinct perspective-multiparty agreement, partnering agreement, and standard biparty agreement. A comparative study is conducted to dissect the nuances within the contracts under scrutiny. The research meticulously examines how these standard contract forms grapple with identified contractual challenges. Consequently, the study proposes a robust .drafting structure and framework, outlining provisions deemed crucial for inclusion in BIM-based contracts

کلمات کلیدی:

Building Information Modeling (BIM); Contractual Governance, Relational Governance, Project Performance, Engineering, Procurement, Construction
.(EPC

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/1960686>

