عنوان مقاله:

Enhancing Building Information Modeling by using IoT services

محل انتشار:

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خلاصه مقاله:

BIM has gained a great success in representing the semantic information in the models, but at the post-construction/operation stage model becomes stateless, which means that it does not represent the building as a living entity but it only represents the as-built or as-operated form of the building. This results that BIM remains as not more than a usage manual for the building. Internet-of-Things (IoT) focuses on enabling communication between all devices, things that are existent in real life or that are virtual. This paper focuses on making BIM a living information resource by integrating its information with real-time information obtained from IoT nodes. This integration can be used in construction industry in order to have better construction monitoring, crisis management, energy management, rehabilitation, etc. As there are lots of disasters (flood, fire, earthquake, etc.) threating people s life, it s an obvious necessity to use these improvements to manage these situations more efficiently.

کلمات کلیدی:

Building Information Modeling, Internet of the Things, sensor network, RESTful web services, real-time information