Building Information Modelling in the Canadian Architecture,
Engineering, and Construction Industries

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Abstract

Building information modelling (BIM) has gained popularity in the architecture, engineering, and construction (AEC) industries around the globe. Comparing to other leading nations, Canada has limited studies and initiatives on BIM. To fill the knowledge gap, the research will assess and quantify the adoption of BIM in the Canadian AEC industry, and identify relevant visualization technologies that facilitate the adoption of BIM. The first and second annual BIM surveys were reported for the Greater Toronto Area and Canada in 2018 and 2019, respectively. Key findings were highlighted in the thesis, such as the limited use of BIM in engineering, construction, and facility management. In addition, a content-based literature review was conducted for 126 journal articles from 2000 to 2018. Eight construction applications were identified and discussed. The contributions of this research include three conference papers, two technical reports, and a review article that will be submitted for peer review.