



Evaluation of Mobile Digital Tools to Monitor BIM Construction

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Organization: Université Laval
Application: Wood Building Systems
Topic: Site Construction Management
Keywords: BIM
Mobile Digital Tools
Research Status: In Progress
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Summary:

Mobile digital tools (tablets and mobile phones) are ubiquitous in our lives. The potential of the cameras of these tools is under-exploited if we consider the geo-spatial information that they can provide to the information management systems (BIM) via cloud platforms for example. The images captured by these cameras can be combined with information from other sensors (gyroscope, accelerometers, etc.) and thus aligned with a BIM model. Many of these technologies are commonly used for robotic localization. The project would aim to assess whether current technologies could be used to track construction progress and identify non-conformities. The project would also determine the level of precision that can be achieved.