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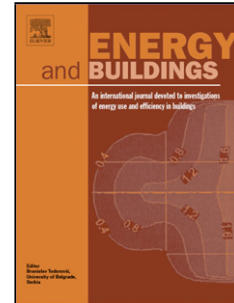
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The Promise of BIM for Improving Building Performance

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The current work highlights that:

- BIM can improve not only the construction process but also enable exploration of alternative approaches.
- BIM has the potential to be used toward a better understanding of existing environmental conditions.
- Shading and insulation retrofits can provide greater energy efficiency improvements in buildings.

Abstract

In order to raise awareness of the role of building information modeling (BIM) in improving energy efficiency and comfort conditions, the work introduces a strategy of combining building simulation tools and optimization methods. Furthermore, it emphasizes the fact that a combination of these strategies with BIM can improve not only the construction process but also enable exploration of alternative approaches. The work discusses the potential application of data integration methodology for an office environment and focuses on the review of the potential performance of integrated systems. It also explains how BIM can help facilitate review of results and methods for improving building performance in terms of energy efficiency and indoor environmental quality.

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