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BIM-based Sustainability Analysis: An Evaluation of Building Performance Analysis Software

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(PDF) BIM-based Sustainability Analysis: An Evaluation of Building Performance Analysis Software | Rizwan Farooqui - Academia.edu With the rising cost of energy and growing environmental concerns, the demand for sustainable building facilities with minimal environmental impact is increasing.

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BIM-based Sustainability Analysis As with traditional physical

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models and drawings, evaluating building performance based on the graphic representations of conventional CAD or object-CAD solutions requires a great deal of human intervention and

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An analytical weight-based scoring system is used for this purpose. At the end, a conceptual framework is presented to illustrate how construction companies can use BIM for sustainability analysis and evaluate LEED (Leadership in Energy and Environmental Design) rating of a building facility.

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In this context, Building Information Modeling (BIM) can aid in performing complex building performance analyses to ensure an optimized sustainable building design. In this exploratory research, three building performance analysis software namely Ecotect™, Green Building Studio™ (GBS) and Virtual Environment™ are evaluated to gage their suitability for BIM-based sustainability analysis.

CiteSeerX — BIM-based sustainability analysis: an ...

Challenges of BIM Based Sustainability Analysis at Conceptual Design Stage A building's sustainability is dependent on several inter-related and inter-dependent factors and these factors are affected by the design decisions made by different stakeholders

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It is documented that despite the obvious benefits of collaborative BIM-based sustainability analysis, its use is still not widely adopted; the e-readiness of construction companies to adopt new technologies is a major concern among researchers (Ruikar et al., 2006). Especially in the case of high performance

Facilitating BIM-based sustainability analysis and ...

Challenges of BIM Based Sustainability Analysis at Conceptual Design Stage A building's sustainability is dependent on several inter-related and inter-dependent factors and these factors are affected by the design decisions made by different stakeholders in a construction project (Anastas & Zimmermann, 2003).

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BIM and Conceptual Design Sustainability Analysis: An ...

Sustainable BIM-based system for Buildings evaluation From the studied operation stage in public buildings, as discussed above and shown in Figure 1, various information which comes from various phases of the building's lifecycle should be available to operate and maintain the many complex energy systems used by buildings' occupants.

Sustainable BIM-based Evaluation of Buildings - ScienceDirect

Following this discussion of BIM for sustainability, it is no coincidence that the industry leaders Wienerberger have made BIM a central process in developing their e4 brick house project. Uniting energy efficiency, financial, environmental and emotional benefits, the e4 innovation in house building paves the way for a new sustainability-based mindset among manufacturers.

How does BIM aid sustainability? - BIM News

BIM technologies, BIM based sustainability, Environmental Assessment methods, Sustainability drivers and barriers. Abstract The delivery of sustainable and green certified buildings such as BREEAM and LEED is a highly-discussed topic with significant interest growth between the Architecture Engineering and Construction (AEC) industry.

Factors Motivating the Adoption of BIM- based ...

In this context, Building Information Modeling (BIM) can aid in performing complex building performance analyses to ensure an optimized sustainable building design. This research project...

BIM for Sustainability Analyses | Request PDF

Currently, there are three commonly used BPM-based sustainability analyses software available to the researcher. These are: Autodesk Ecotect, Autodesk Green Building Studio (GBS) and Integrated Environmental Solutions (IES) Virtual Environment (VE). For the purpose of the paper, Ecotect was used as the building performance tool.

Building performance modelling for sustainable building

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BIM-Based Analysis in Sustainability As it is discussed previously, BIM can conduct operation on multi-disciplinary data within one model. This feature enables performing process on sustainability measures due to their complicated designing and delivering performances.

The Contributions of Building Information Modelling to ...

BIM-based Sustainability Analysis: An Evaluation of Building Performance Analysis Software Salman Azhar and Justin Brown Auburn University Auburn, Alabama Rizwan Farooqui Florida International University Miami, Florida With the rising cost of energy and growing environmental concerns, the demand for sustainable building facilities with minimal environmental impact is increasing.

energy performance.pdf - BIM-based Sustainability Analysis ...

Sustainability analysis BIM tools and workflow have two phases: inherent BIM features and BIM-based analysis tools. Inherent BIM includes functions such as 3D Model, visualization clash, and detection, which help integrated project delivery and design optimization. BIM-based analysis tools are used to analyze energy, solar, thermal, etc.

Building information modeling in green building - Wikipedia

Integrated BIM-Parametric Workflow-Based Analysis of Daylight Improvement for Sustainable Renovation of an Exemplary Apartment in Seoul, Korea by Fabrizio M. Amoruso 1 , Udo Dietrich 2 and Thorsten Schuetze 1,*

Integrated BIM-Parametric Workflow-Based Analysis of ...

Ensuring quality of BIM-based building sustainability performance analysis with Model Checker Building Information Models (BIM) provide an effective way to assess and optimize building sustainability performance. For this to work, the BIM needs to represent the intended building.

BIM for sustainable building design with One Click LCA's

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In theory, BIM is well suited to sustainability due to the capacity of BIM to inventory beneficial data for measuring life cycle costs or performing energy analysis. But in practice, a lot of problems have been arising related to interoperability, regulation, and compliance issues.

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