

Advanced digital technologies in the post-disaster reconstruction process—A review leveraging small language models

Rawat, Alok; Witt, Emlyn David Qivitoq; Roumyeh, Mohamad; Lill, Irene Buildings 2024 / art. 3367

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Air leakage of joints filled with polyurethane foam

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Air pressure differences over external walls in new and retrofitted schools and daycare centers

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Analysis of measures for managing issues in post-disaster housing reconstruction

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Benefits through space heating and thermal storage with demand response control for a district-heated office building

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The BIM-based building permit process : factors affecting adoption

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Computationally efficient method for steel column buckling in fire

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Conceptual framework of information flow synchronization throughout the building lifecycle

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Cost-effective heating control approaches by demand response and peak demand limiting in an educational office building with district heating

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Cost-optimal renovation solutions for detached rural houses in Severe cold regions of China

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Critical factors for effective BIM-Enabled education : an adaptive structuration theory perspective

Olowa, Theophilus Oluwarotimi Olatunde; Witt, Emlyn David Qivitoq; Lill, Irene; Rasheed, A.; Abdulmumin, A.; Adebisi, R. Buildings 2023 / art. 3044, 18 p. : ill <https://doi.org/10.3390/buildings13123044> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Defining a BIM-enabled learning environment - an adaptive structuration theory perspective

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Design of high-performing hybrid ground source heat pump (GSHP) system in an educational building

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The effect of printing direction on the strength characteristics of a 3D printed concrete wall section

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Hygrothermal performance of thick PCM mortar behind PV panels in energy-activated ETICS facades

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Modelling the technical–economic relevance of the ETICS construction process

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Peak shaving of a district heated office building with short-term thermal energy storage in Finland

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Quality evaluation of sizeable surveying-industry-produced terrestrial laser scanning point clouds that facilitate building information modeling - a case study of seven point clouds

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