

Publications

Architectural Engineering

Year 2020

Journals

1. Raveendran, R.; Hassan, **A.**; **Tabet Aoul, K.A***. Diagnoses for Potential Enaction of Water–Energy Nexus in Green Building Rating Systems: Case Study of the Pearl Rating System of United Arab Emirates. *Energies* 2020, 13, 5284.
2. M Khoukhi, S Abdelbaqi, **A Hassan**. Transient temperature change within a wall embedded insulation with variable thermal conductivity. *Case Studies in Thermal Engineering*, 100645.
3. Wear Debris Shape Classification. Mohammad Shakeel Laghari, Ahmed Hassan, Mubashir Noman Lecture Notes in Electrical Engineering 659 2020.
4. R Raveendran, **A Hassan**, KAT Aoul. Diagnoses for Potential Enaction of Water–Energy Nexus in Green Building Rating Systems: Case Study of the Pearl Rating System of United Arab Emirates. *Energies* 13 (20), 5284
5. Qamar Navid, **Ahmed Hassan**, Abbas A Fardoun, Rashad Ramzan. An Online Novel Two-Layered Photovoltaic Fault Monitoring Technique Based Upon the Thermal Signatures. *Sustainability*-Accepted.
6. Ali Hasan Shah, **Ahmed Hassan**, Mohammad Shakeel, Abdulrahman Alraeesi. Determination of Optimal Cleaning Frequency of Photovoltaic Modules Based on Power losses in the UAE climate. Accepted, *Sustainability*
7. Zanelidin, E., **Al Khatib, O.** & Ahmed, W. Investigating the use of no-dig technologies for underground utilities in developing countries, *Springer Journal of Innovative Infrastructure Solutions*. 2020, 5: 17.
<https://doi.org/10.1007/s41062-020-0265-5>
8. M. Khoukhi, S. Awni and **O. Al Khatib**. "Passive environmental design of an eco-house in the hot humid climate of the Middle East: a qualitative approach". *Cogent Engineering*, 2020, 7: 1837410
<https://doi.org/10.1080/23311916.2020.1837410>.
9. **M. Khoukhi**, S. Abdelbaqi and A. Hassan. "Transient temperature change within a wall embedded insulation with variable thermal conductivity". *Case Studies in Thermal engineering*, 20, 2020, 100645.
10. **M. Khoukhi**, A. Mercado, S. Al Kaabi, W. Shbeikat and H. Amairi, "Investigating the Daylight Levels for Functional Needs in Old UAE Forts". *Cogent Engineering*, 2020, 7: 1745554.
doi.org/10.1080/23311916.2020.1745554.
11. **M. Khoukhi**, A. F. Darsaleh and S. Ali. "Retrofitting an Existing Office Building in the UAE towards Achieving Low-Energy Building". *Sustainability*, 2020, 12(6), 2573; doi.org/10.3390/su12062573
12. **M. Khoukhi**, S. Awni and O. Al Khatib. "Passive environmental design of an eco-house in the hot humid climate of the Middle East: a qualitative approach". *Cogent Engineering*, 2020, 7: 1837410
<https://doi.org/10.1080/23311916.2020.1837410>.
13. **Haddad M** and Shrive N. Cyclic performance and fracture of wide flanged concentrically steel braced frames. *Australian Journal of Structural Engineering* (2020) 21(3) 263-278. DOI: 10.1080/13287982.2020.1786988
14. **Shafiq, M.T.**, Afzal, M (2020) Potential of virtual design construction technologies to improve job-site safety in gulf corporation council, *Sustainability*, Volume 12, Issue 9, 1 May 2020, Article number 3826
15. **Shafiq, M.T.**, Lockley, S.R. (2020) Application of signature-based matching for IFC model comparison, *International Journal of Construction Management*, DOI: 10.1080/15623599.2020.1742630
16. **Bleibleh, S.**, & Awad, J. (2020). Preserving cultural heritage: shifting paradigms in the face of war, occupation, and identity. *Journal of Cultural Heritage*, (2020). <https://doi.org/10.1016/j.culher.2020.02.013>
17. Alrefai, A., & **Agiel, A.** (2020). Assessment of the design quality in the low-income employee's housing case study: Abu Dhabi – UAE. *International Journal of Scientific and Technology Research*, 9(3), 855–859.

Year 2020

18. **Young Ki Kim**, Double skin façade: energy performance in the United Arab Emirates, 2020 Energy sources. Part B Economics, planning and policy DOI:10.1080/15567249.2020.1813845
19. Manandhar, P.; **Bande, L.**; Tsoupos, A.; Marpu, P.R.; Armstrong, P. "A Study of Local Climate Zones in Abu Dhabi with Urban Weather Stations and Numerical Simulations". Sustainability 2020, 12, 156.
20. Alawadi, K., Alameri, H. and **Scoppa, M.**, 2020. Reclaiming Alleyways to Improve Network Connectivity: Lessons from Dubai's Neighborhoods. Journal of Planning Education and Research, p.0739456X20931907.

Conferences

1. Ameri A.A., **Tabet Aoul, K. A.**, (2020), "Occupants' Behavior and Energy Usage in Emirati's Individual Houses in Al Ain: Exploratory Investigation". In: Mateev M., Nightingale J. (eds) Sustainable Development and Social Responsibility—Volume 1. Advances in Science, Technology & Innovation (IEREK Interdisciplinary Series for Sustainable Development), Springer
2. Mohammad Shakeel Laghari, **Ahmed Hassan**, Mubashir Noman. Wear Debris Shape Classification Lecture Notes in Electrical Engineering 659, IEEE. 2020.
3. **Galal Ahmed, Khaled**; Al-Sheebani, Aysha; Al-Zaabi, Fatema; Al-Nuaimi, Maitha; Megahed, Mona (2020) From 2D Drawings to VR-enabled BIM: Developing a Building Construction Systems Course at the UAEU, in the Proceedings of the 27th World Conference on Applied Science Engineering & Technology (27th - WCASET), 18-19 March, Dubai, UAE.
4. **Galal Ahmed, Khaled** (2020) Integrating VR-enabled BIM in Building Design Studios, Architectural Engineering Program: A Pilot Study, in the Proceedings of The 3rd International Multi-Conference on Advances in Science and Engineering Technology, ASET'2020: Innovations in Engineering Education, 9 April 2020, Dubai, UAE, pp. 1-6, IEEE Publication-Scopus Indexed, doi: 10.1109/ASET48392.2020.9118308
5. **Galal Ahmed, Khaled** (2020) Augmented Reality in Remote Learning: A Proposed Transformative Approach for Building Construction Education, in the Proceedings of The Sixth International Conference On E-Learning (Econf20), 6th – 7th December 2020, Online, IEEE Publication-Scopus Indexed.
6. **M. Khoukhi** and S. Abdelbaqi, "Impact of the variation of the thermal conductivity of the insulation material on the heat transfer through a building envelope", The Second Edition of the International Conference on Innovative Applied Energy. IAPE'20 conference September 15-16, 2020, **Cambridge, United Kingdom**.
7. Abeer Dar Saleh, **Maatouk Khoukhi**, Shaimaa Abdelbaqi. Reducing the Total Energy Consumption of an Existing Office Building through Alternative Construction Parameters. 7th international conference on knowledge and innovation in Engineering, Science and Technology. **Berlin, Germany**. 15-17 December 2020.
8. **Maatouk Khoukhi**, Shaimaa Abdelbaqi, Abeer Dar Saleh. The Effect of the Wall Assembly Positions of Different Density Levels of Polystyrene Insulation on Its Dynamic Thermal Conductivity. The 3rd International Conference on Recent Trends in Multi-Disciplinary Research (ICRTMDR-20). **Maldives**. 26-27 December 2020.
9. Shaimaa Abdelbaqi, **Maatouk Khoukhi**, Abeer Darsaleh. (2020). The Effect of the Temperature Change on the Dynamic Heat Transfer through the Insulation Material at Different Wall Positions. The 3rd International Conference on Recent Trends in Multi-Disciplinary Research (ICRTMDR-20). **Maldives**. 26-27 December 2020
10. **O. J. Alkhatib**, " An Assessment of the Reliability of Rebound Hammer for Moist-Cured Specimens," 2020 Advances in Science and Engineering Technology International Conferences (ASET), Dubai, United Arab Emirates, 2020, pp. 1-6
11. R. Hamza, W. K. Ahmed, E. Zanelidin, **O. J. Alkhatib**, "Integrating Interactive Learning in Teaching General Engineering Courses," 2020 Advances in Science and Engineering Technology International Conferences (ASET), Dubai, United Arab Emirates, 2020, pp. 1-6

Year 2020

12. **Madhar Haddad*** and Nigel Shrive. Simulating the Cyclic Behaviour of a Single-bay Wide-flanged Steel Braced Frame. XI International Conference on Structural Dynamics (EURODYN 2020). 23-26 November 2020, Athens, Greece. Paper ID: E20019.
13. **Madhar Haddad*** and Nigel Shrive. Cyclic Behaviour and Fracture of a Single-bay Wide-flanged Steel Braced Frame. XI International Conference on Structural Dynamics (EURODYN 2020). 23-26 November 2020, Athens, Greece. Paper ID: E21525.
14. **Shibeika, A.**, Hittini, B., Raheem, T.A. (2020) The Adoption of Building Environmental Performance Assessment Methods in the UAE Built Environment. Lecture Notes in Mechanical Engineering, pp. 33-41.
15. Bande, L., Manandhar, P., Marpu. P., and **Al Battah, M.** (2020). "Local Climate Zones Definition in Relation to ENVI-met in the City of Dubai, UAE." *5th International Conference on Building Materials and Construction (ICBMC 2020)*, Tokyo, Japan, 26-29 February, 2020.
16. **Muhammad Tariq Shafiq**, Ghaleb Al Seena, Mohammed Al Saqqa, Sultan Al Mansouri (2020) Defects Management practice during DLP in the UAE Construction Industry. Proceedings of the International Conference on Industrial Engineering and Operations Management Dubai, UAE, March 10-12, 2020.
17. **Young Ki Kim** Indoor Environment Quality Evaluation in Hot Arid Climate: A Case Study of a Higher Education Office Building at the 11th International Conference on Environmental Science and Development-ICESD 2020 hold at Barcelona, Spain February 10-12, 2020.

Book Chapters

1. Attoye, D.E., **Tabet Aoul, K.A** (2020), "A review on Building Integrated Photovoltaics: Importance, Development, and Challenge", Dabija, A-M. (Eds.), Energy Efficient Building Design. In Topics: Sustainable Architecture/Green Buildings, Springer International Publishing,
2. **Khaled Galal Ahmed** (2020) Sustainable Modes of Mobility in New Urban Neighborhoods in UAE: Assessing Walkability and Bikeability, in Ahmed Al-Masri and Yousef Al-Assaf (Eds): Sustainable Development and Social Responsibility – Ch 33, Volume 2, pp 309-318, ISBN:978-3-030-32901-3, Springer, Cham. Chapter DOI: 10.1007/978-3-030-32902-0_33
3. **Shafiq, M.T.**, Afzal, M., (2021) Improving Construction Job Site Safety with Building Information Models: Opportunities and Barriers. Lecture Notes in Civil Engineering, 98, pp. 1014-1036