

Publications

Architectural Engineering

Year 2023

Journals

Dr. Khaled Galal Ahmed:

1. Hamdoon, Baraah Moutaz and Galal Ahmed, Khaled (Corresponding Author) (2023) Assessing Mobility measures for socially Sustainable Waterfront Redevelopment Projects: A Case Study in United Arab Emirates, International Journal of Transport Development and Integration, Vol. 7, No. 1, 93-107, DOI:10.2495/TDI-V7-N1-93-107.
2. Galal Ahmed, Khaled (2023) Exploring a Blended Learning Comprehensive Transformation Process for a Non-Lab Based Graduate Course at UAE University, Education Quarterly Reviews, Vol.6, No.2, pp: 124-137, ISSN 2621-5799, DOI: 10.31014/aior.1993.06.02.744.
3. Sami Ur Rehman, Muhammad; Shafiq, Muhammad Tariq; Ullah, Fahim; Galal Ahmed, Khaled (2023) A Critical Appraisal of Traditional Methods of Construction Progress Monitoring. Built Environment Project and Asset Management, Vol. 13 No. 6, pp. 830-845., <https://doi.org/10.1108/BEPAM-02-2023-0040>.
4. Galal Ahmed, Khaled (2023) Editorial: New Approaches for Sustainable & Resilient Processes and Products of Social Housing Development in the Arabian Gulf Countries, Frontiers in Built Environment, Sec. Urban Science, Volume 9 – 2023, doi: 10.3389/fbuil.2023.1271527.
5. Galal Ahmed, Khaled (Corresponding Author); Alipour, S. M. Hossein and Noguchi, Masa (2023) Design Transition of Emirati Public Housing from Urban Sprawl to ‘Vertical’ Urban Forms: Impacts on Energy and Ecological Performances, Journal of Architectural Engineering, Vol. 29, No. 4, 05023008-1–15, DOI: <https://doi.org/10.1061/JAEIED.AEENG-1624>.
6. Shareef, Omar and Galal Ahmed, Khaled (Corresponding Author) (2023) From Single- to Multi-Family Public Housing: Analyzing Social Sustainability Aspects of Recent Designs in the UAE, Social Sciences, 12(9), 513; <https://doi.org/10.3390/socsci12090513>.
7. Kordi, A.O., Galal Ahmed, K. (Corresponding Author) (2023) Towards a socially vibrant city: exploring urban typologies and morphologies of the emerging “CityWalks” in Dubai. City, Territory and Architecture, 10, 34. <https://doi.org/10.1186/s40410-023-00221-5>.

Dr. Mahmoud Haggag

1. Hillal, N.; **Haggag, M. ***; Dar Saleh, A., Optimizing Energy Efficiency in High-Rise Residential Buildings in Abu Dhabi’s Hot Climate: Exploring the Potential of Double Skin Façades, *Buildings* 2023, 13(9), 2148; <https://doi.org/10.3390/buildings13092148>
1. Masood, U., **Haggag, M.***, A. Hassan, M. Shakeel, A review of phase change materials for cooling applications and heat transfer improvements, *Buildings* 2023, 13(7), 1595; <https://doi.org/10.3390/buildings13071595>.
2. **Haggag, M. ***, et al, The Use of Phase Change Materials for Cooling Applications in the Hot Climate of the UAE. *Advances in Science and Technology Vol. 137*, <https://doi.org/10.4028/v-8WZw2n>
3. Masood, U., **Haggag M.***, Hassan, A., Laghari, M., Evaluation of Phase Change Materials for Pre-Cooling of Supply Air into Air Conditioning Systems in Extremely Hot Climates. *Buildings* 2024, 14(1), 95; <https://doi.org/10.3390/buildings14010095>

Dr. Lindita Bande

1. M. Albattah, L. Bande. “Awareness and Perception of the Environmental Sustainability of the UAE University Campus: A Case Study of Sustainability Course”. International Journal of Sustainability in Higher Education 2023 (Q1). <https://doi.org/10.1108/IJSHE-04-2022-0129> (Top 10%).
2. Bande, L.; Asmelash, Y.; Ahmad, A.; Cyiza, A.; Berengueres, J. Evaluation of an Existing Validated Emirati House versus a New Parametric Design Based on the Local Social Environment through the Application of Advanced Tools. *Buildings* 2023, 13, 2627. <https://doi.org/10.3390/buildings13102627> (Top 10%).

Year 2023

Dr. Sahera beliblieh

1. Awad, S.* & Bleibleh, S.* (2023). The neoliberal real estate model and the fantasy of hyperreality: the case of Rawabi City, Palestine. City, territory and architecture, 10 (1). <http://doi:10.1186/s40410-023-00197-2>
2. Hasan, D., & Bleibleh, S.* (2023). The everyday art of resistance: Interpreting “resistancescapes” against urban violence in Palestine. Political Geography, 101, 102833. <https://doi.org/10.1016/j.polgeo.2023.102833>

Dr. Madhar Haddad

1. Khedaywi, T., Haddad, M. & Hwarie, S. Effect of Waste Iron Powder on Properties of Asphalt Concrete Mixtures: State of the Art. Int. J. Pavement Res. Technol. (2023). <https://doi.org/10.1007/s42947-023-00328-5>
2. Haddad, M., Khedaywi, T. (2023). Investigating the effect of olive husk ash on dynamic creep of asphalt concrete mixtures. Journal of Engineering Science and Technology, 18(2): 931-948.
3. Haddad, M.A., Khedaywi, T.S. (2023). Moisture resistance of olive husk ash modified asphalt mixtures. Annales de Chimie - Science des Matériaux, Vol. 47, No. 3, pp. 141-149. <https://doi.org/10.18280/acsm.470303>
4. Khedaywi, T., Haddad, M., Mujalli, R. et al. Effect of sulfur on the asphalt cement and asphalt concrete mixture: state of the art. Innov. Infrastruct. Solut. 8, 286 (2023). <https://doi.org/10.1007/s41062-023-01264-w>
5. Khedaywi, T., Haddad, M., Alyasseen, S. (2023). Effect of filler materials on Marshall properties and rutting of asphalt mixtures using wheel tracking test: A comparative study. Journal of Engineering Science and Technology, 18(4): 1915-1935.
6. Khedaywi, T., Haddad, M. & Bataineh, H. Effect of waste plastic polyethylene terephthalate on properties of asphalt cement. Innov. Infrastruct. Solut. 8, 232 (2023). <https://doi.org/10.1007/s41062-023-01208-4>
7. Khedaywi, T., Al-Masaeid, H., Haddad, M., Al-Ajlouni, S. (2023). Vehicle parking availability in the business district of Irbid city – Jordan (A case study). Journal of Engineering Science and Technology, 18(5): 2444–2469.

Dr. Maatouk Khoukhi

1. A. Dar Saleh, A. Agiel, **M. Khoukhi** and S. Haris, “Investigating the material properties of hemp fiber and puffed rice for use in heritage conservation”, *Heritage Science* 11 (1), 1-15, 2023 (**Top 5%**).
2. M. Rahmani, KA. Al-Sallal, O. Alkhatib and **M. Khoukhi**, “Potential of form-pocketed design in mitigating heat in a university educational glazed-curtained building in the desert climate of UAE”, *Energy and Buildings* 297, 113424, 2023 (**Top 5%**).
3. N. Kutty, D. Barakat and **M Khoukhi***, “A French Residential Retrofit toward Achieving Net-Zero Energy Target in a Mediterranean Climate”, *Buildings* 2023, 13, 833, 2023 (**Top 10%**).

Dr. Mohamed Mahgoub

2. Elnabawi, M.H.; Hamza, N.; Raveendran, R (2023) ‘Super cool roofs’: Mitigating the UHI effect and enhancing urban thermal comfort with high albedo-coated roofs. Results in Engineering 19 (2023) 101269 <https://doi.org/10.1016/j.rineng.2023.101269>
2. Mohamed H. Elnabawi & Esmail Saber (2023) A numerical study of cool and green roof strategies on indoor energy saving and outdoor cooling impact at pedestrian level in a hot arid climate, Journal of Building Performance Simulation, 16:1, 72-89, DOI: 10.1080/19401493.2022.2110944

Dr. Martin Scoppa

1. Alawadi, K., Alameri, H. and **Scoppa, M.**, 2023. Reclaiming Alleyways to improve network connectivity: Lessons from Dubai’s neighborhoods. Journal of Planning Education and Research, 43(4), pp.917-939. **Online publication 2020.**
2. Alawadi, K., Hong Nguyen, N., Alrubaei, E. and **Scoppa, M.**, 2023. Streets, density, and the superblock: neighborhood planning units and street connectivity in Abu Dhabi. *Journal of Urbanism: International Research on Placemaking and Urban Sustainability*, 16(2), pp.168-195. **Online publication 2021**

Year 2023

Dr. Abdul Rauf

1. Saradara, S. M., Khalfan, M. M. A., Rauf, A., & Qureshi, R. (2023). On the path towards sustainable construction—the case of the United Arab Emirates: a review. *Sustainability*, 15(19), 14652.
2. Ulhaq, I., Maqsood, T., Khalfan, M., Le, T., & Rauf, A. (2023). Investigating Stakeholder Perspectives on the Knowledge Management of Construction Projects: A Case Study of the Vietnamese Construction Industry. *Buildings*, 13(11), 2745.

Dr. Young Ki Kim

1. H Altan*, YK Kim, S Zahiri, B Ozarisoy, “Adaptive design solutions for buildings and the built environment after the COVID-19 pandemic”, *Frontiers in Built Environment* 9, 1201139
2. Najeeba Abdulla Kutty, Dua Barakat, Abeer Othman Darsaleh and Young Ki Kim*, “A Systematic Review of Climate Change Implications on Building Energy Consumption: Impacts and Adaptation Measures in Hot Urban Desert Climates”, *Buildings* 2023, 1, 14

Dr. Ahmed Agiel

1. Jameel, F., & Agiel, A.* , (2023). Exploring students' emotional well-being in the ideal university hostel using the qualitative repertory grid technique. *International Journal of Environmental Research and Public Health*, 20(6724). **Q1 CiteScore**. (* corresponding author) <https://doi.org/10.3390/ijerph20066724>
2. Dar Saleh, A., Agiel, A.*, Khoukhi, M., & Haris, S. (2023). Investigating the material properties of hemp fiber and puffed rice for use in heritage conservation. *Heritage Science*, 11(1). **Top 5%**. (* corresponding author) <https://doi.org/10.1186/s40494-023-00688-6>

Conferences

Dr. Khaled Galal Ahmed:

2. Galal Ahmed, Khaled; Hamdoun, Baraah; Abdelwahed, Noor; Elsayed Abdelrehim, Sohila; and Younes, Raghad (2023) Assessing Urban Design Appropriateness for Shared e-Scooters Micromobility in Existing Neighbourhoods: A Case Study in Al Ain, UAE, in the Proceedings of The International Conference on Sustainable Environment and Urban Infrastructure, the Higher Colleges of Technology (HCT), February 20-23, 2023, Dubai, UAE.
3. Rund Hiyasat, Lindita Bande, Khaled Galal Ahmed, Baraah Hamdoun, Jose Berengueres, Abdul-Aziz Banawi (2023) VR and AR application in Academia, overview in the Middle East Universities, in the Proceedings of the 25TH International Conference on Human-Computer Interaction (HCII2023), July 23-28, Copenhagen, Denmark.
4. Galal Ahmed, Khaled; Abdelwahed, Noor; Elsayed Abdelrehim, Sohila; Younes, Raghad Al Askari, Amal; and Alyamahi, Wedad (2023) Emirati Neighbourhoods as Balanced Ecosystems: Pilot Exploration of the ‘Informal’ Urban Agriculture Practices and Potentials, in the Proceedings of the Climate Change and Environmental Sustainability International Conference (CCES2023) 3rd Edition, 17-19 September 2023, Virtual.
5. Shareef, Omar and Galal Ahmed, Khaled (2023) From Single to Multi-Family Public Housing: Analyzing Social Sustainability Aspects in the Recent Designs in the UAE, in the Proceedings of the 5th AUE International Research Conference: Emerging Trends in Multi-Disciplinary Research (AUERIC 23), 29-31 May 2023, American University in the Emirates, Dubai, United Arab Emirates.
6. Dannawi, Alaa Kordi; Galal Ahmed, Khaled and Abuelgasim, Abdelgadir (2023) Mapping Morphology of the ‘CityWalk’ as a new Urban Public Space Typology in Dubai using GIS, in the Proceedings of the 5th AUE International Research Conference: Emerging Trends in Multi-Disciplinary Research (AUERIC 23), 29-31 May 2023, American University in the Emirates, Dubai, United Arab Emirates.

Dr. Mahmoud Haggag

Year 2023

1. **Haggag, M. ***, et al, Phase Change Materials for Cooling Applications in the Hot Climate of UAE, proceeding of the 9th International Scopus Indexed Conference on Architecture, Materials, and Construction (ICAMC 2023), Singapore, 14-16 June 2023.
2. **Haggag, M***. et al, High-Performance Lightweight Geopolymer Concrete for Hot Climate of the UAE, Oral Presentation, 8th Annual Undergraduate Student Research Conference, UAEU, 12 April 2023.

Dr. Lindita Bande

1. L. Bande, B. Babameto, "Architectural Identity of the City of Tirana, Albania. Overview of the Past, Present, and Future Expectations with Focus on the Residential Buildings (Inner Circle)", CEAC 2023, Kyoto, Japan, 17-20 March, (presenter)
2. A. Alsheraifi, L. Bande, A. Alsheraifi and M. Iqbal, "Sustainable House Design Thru Passive and Active Strategies with Python Language. Case Study Ras AL Khaimah (RAK), UAE" CEAC 2023, Kyoto, Japan, 17-20 March, (presenter)
3. J. Berengueres, L. Bande, A. Alsheraifi, A. Alnuaimi, E. Alawthali and A. Ablooshi, "Mars Habitat Design Thru Parametric Structures Based on United Arab Emirates Heritage" CEAC 2023, Kyoto, Japan, 17-20 March, (presenter)
4. Hiyasat, R., Bande, L., Ahmed K. G., Hamdoon, B., Banawi, A., z.VR and AR application in Academia, overview in the Middle East Universities. HCI International 2023 Conference. 23-28 July 2023, Copenhagen, Denmark.
5. L. Bande, J. Berengueres, A. Ahmad, E. Alawthali and H. Ajiba. Digital Fabrication in the industrial Sector in Middle East, general overview. HCI International 2023 Conference. 23-28 July 2023, Copenhagen, Denmark.
6. L. Bande, A. Alsheraifi, R. Alderei, E. Alwathali and Y. Asmelash. Parametric Design Structures for Hospitality Project with advanced tools applications. Case study Liwa, Abu Dhabi, United Arab Emirates. Zemch 2023. 2-4 August 2023, Arequipa, Peru.
7. H. Ajiba and L. Bande. 3D Printing Evaluation of Offices in UAEU Campus. Zemch 2023. 2-4 August 2023, Arequipa, Peru.

Dr. Maatouk Khoukhi

2. **M. Khoukhi** and AD. Saleh, "Insulation Properties of Rice-Based Materials in Hot and Moderate Climates", 8th International Conference on Civil, Structural and Transportation Engineering (ICCSTR 2023), 4-6 June, 2023, Carleton University, Ottawa, Canada.
3. **M. Khoukhi**, "The impact of temperature change on the dynamic Thermal Conductivity of EPS at Different Positions in the Wall Assembly", International Conference on Innovation in Civil & Architecture (ICICA-2023), 24-25 October 2023, Manchester, UK.

Dr. Martin Scoppa

1. Kutty N., **Scoppa M***, Quantifying 'Superblock' Typologies: Classification based on parameters of 'Built Density', 'Urban Geometry', and 'Street Network. 8th Urban Planning and Architectural Design for Sustainable Development. 24-26 October 2023. University of Florence, Florence, Italy. *Corresponding author.
2. Salahat Y., Anabtawi R., Mouzenah, H. Haj. A, **Scoppa M***. Walking to the Transit Stop. Measuring non-motorized accessibility to transit infrastructure in the residential neighborhoods of the Capital District project in Abu Dhab. 8th Urban Planning and Architectural Design for Sustainable Development. 24-26 October 2023. University of Florence, Florence, Italy. *Corresponding author.

Dr. Abdul Rauf

1. Rauf, A., Efurosibina, A. D., Khalfan, M., & Tariq, S. M. (2023). Circular Economy in Buildings: Service Life Considerations of Paint. International Civil Engineering and Architecture Conference, Kyoto, Japan
2. Rauf, A., & Shafiq, M. T. (2023). Reducing Embodied Energy of Floor Assembly: A Case for Using CLT in Mid-Rise Residential Buildings. International Civil Engineering and Architecture Conference, Kyoto, Japan

Year 2023

Dr. Young Ki Kim

1. Ghunaim, ATINA M*; Kim, Young, "Reviewing the Effect of Indoor Living Walls on Air Quality, Energy Consumption in Different Climates", At the 8th International Conference on Smart City Applications Held from 4 to 5 October 2023 at the ESTP-Paris France.

Dr. Ahmed Agiel

1. Albdour, A., & Agiel, A. (2023). Using text-to-image artificial intelligence platforms and repertory grid techniques to generate visual branding scenarios. In *Proceedings of the AMPS (Architecture, Media, Politics, Society) Conference: Applying Education in a Complex World* (pp. 259-266). April 26-28, 2023. Sheridan College, Toronto, Canada.

Books

Dr. Khaled Galal Ahmed:

1. Galal Ahmed, K., Mahgoub, M. H. E., Bande, L., Scoppa, M., eds. (2023) New approaches for sustainable & resilient processes and products of social housing development in the Arabian Gulf Countries. Lausanne: Frontiers Media SA. doi: 10.3389/978-2-8325-3414-4

BookChapters

Dr. Young Ki Kim

1. Kim, Y.K. and Altan, H., Housing and Policies in the United Kingdom. In *Transgressive Design Strategies for Utopian Cities* (pp. 150-177). Routledge.
2. Altan, H. and Kim, Y.K., Case Study 4: Undercliffe Social Housing, Bradford, United Kingdom. In *Transgressive Design Strategies for Utopian Cities* (pp. 238-257). Routledge.

Dr. Sahera beliblieh

1. Bleibleh, S.*, Hassan, B., Mousa, A., and Alneyadi, R. (2024). Dubai World Expo 2020: A Youth-Centric Analysis of Mega Events and their Preliminary Influence on Sustainable Development. (Chapter 5), *Advances in Science, Technology & Innovation*, Francesco Alberti et al. (Eds): *Resilient Planning and Design for Sustainable Cities*. ISBN978-3-031-47793-5. <http://doi:10.1007/978-3-031-47794-2>
2. Bleibleh, S.*, Bande, L. & Adan, R. (2023). "Hands-on Teaching: The Significance of Introductory Courses in Building Architectural Engineering Curriculum" in Co. Ed. Hamid M. K. Al Naimiy et al. (Eds): *Future Trends in Education Post COVID-19*. http://doi.org/10.1007/978-981-99-1927-7_9

Dr. Mohamed Mahgoub

1. Galal Ahmed, K., Mahgoub, M. H. E., Bande, L., Scoppa, M., eds. (2023) New approaches for sustainable & resilient processes and products of social housing development in the Arabian Gulf Countries. Lausanne: Frontiers Media SA. doi: 10.3389/978-2-8325-3414-4

Dr. Martin Scoppa

1. Anabtawi, R. and Scoppa, M., 2023, September. Investigating street connectivity of superblocks with equal street construction cost. In *AIP Conference Proceedings* (Vol. 2928, No. 1). AIP Publishing.

Dr. Abdul Rauf

Year 2023

1. Rauf, A., Attoye, D.E., Crawford, R. (2023). Investigating the Embodied Energy of Wall Assembly with Various Material Service Life Scenarios. In: Caetano, N.S., Felgueiras, M.C. (eds) The 9th International Conference on Energy and Environment Research. ICEER 2022. Environmental Science and Engineering. Springer, Cham. https://doi.org/10.1007/978-3-031-43559-1_17

Dr. Lindita Bande

1. L. Bande, "Lessons from Graduation Project during COVID 19 Pandemic for future applications, methods and tools.", Book Chapter: Future Trends in Education Post COVID-19, Ch3, Springer, 2023.
2. L. Bande, A. Alblooshi, A. T. M. Alnehayan, F. Alsereidi, S. Haidar, A. Gomez, M. Albattah and K. Young, "Graduation Project as an application of COVID 19 impact on students' experience, Case study Medical Center Al Ain, UAE.", Book Chapter: Future Trends in Education Post COVID-19, Ch3, Springer, 2023.
3. S. Bleibleh, L. Bande, R. Adan, "Hands-on-Teaching: The significance of introductory courses in building Architectural Engineering Curriculum.", Book Chapter: Future Trends in Education Post COVID-19, Ch3, Springer, 2023.
4. L. Bande, A. Ahmad, K. Alsereidi, A. Alnuaimi, "Residential Neighbourhood Assessment in The City of Abu Dhabi (United Arab Emirates) And the Impact on Urban Heat Island Effect (UHI)."; Proceedings of the 5th International Conference on Building Energy and Environment, Part XV, Springer, 2023.

Patents