

Publications

Architectural Engineering Department

Year 2018

Journals

1. Tabet Aoul, K., Hassan A., Shah, A., Riaz, H., (2018) "Energy performance comparison of concentrated photovoltaic – Phase change material thermal (CPV-PCM/T) system with flat plate collector (FPC)", *Solar Energy*, Vol 176, December 2018, pp 453-464.
2. Tabet Aoul, K*, Ahmed, H., Riaz, H., (2018) "Solar water heating systems for different building under a hot climate; parametric optimization and economic analysis", *Sustainable Buildings*, Vol. 3 N. 3 (2108).
3. Attoye, D.E.; Adekunle, T.O.; Tabet Aoul, K.A.; Hassan, A.; Attoye, S.O. (2018) "A Conceptual Framework for a Building Integrated Photovoltaics (BIPV) Educative-Communication Approach", *Sustainability*, 2018, 10, 3781.
4. Al Dakheel, J.; Tabet Aoul, K*, Hassan, A., (2018), "Enhancing Green Building Rating of a School under the Hot Climate of UAE; Renewable Energy Application and System Integration". *Energies* 2018, 11, 2465.
5. Benkhedda, M., & Tabet Aoul*, K. (2018). Color on Ceramics in the Medieval Arab Architecture of Tlemcen, Algeria: Light and Ambiance. *Color Culture and Science Journal – ISSN: 2384-9568 - DOI: 10.23738/CCSJ.00*, Vol. 10, pp/ 7-12
6. Kara mostefa, L., Tabet Aoul, K.,* (2018). "The integrated bicultural referent of the built colonial heritage: the social housing models in Oran (1954-1958), Algeria". *Conservation Science in Cultural Heritage – Vol. 17- 2018*.
7. Benkhedda, M., & Tabet Aoul*, K. (2018). "Polychrome ceramics, artistic diagnosis and resulting ambiances in a Marinid Mosque, Algeria. *Conservation Science in Cultural Heritage*, 17(1), 27-44.
8. Haggag, M.; A. Hassan; G. Qadir; S. Abdel Baqi, Air Pre-Cooling through Phase Change Material to Reduce Peak Air-Conditioning Demand , *International Journal of Advances in Mechanical and Civil Engineering (IJAMCE)*, 5(5), www.ijamce.iraj.in.
9. A Hasan, J Sarwar, AH Shah. Concentrated photovoltaic: A review of thermal aspects, challenges and opportunities. *Renewable and Sustainable Energy Reviews* 94, 835-852
10. Ahmed Hassan, Najif Ismail, Abdel-Hamid I. Mourad, Yasir Rashid. Shakil Leghari. Preparation and Characterization of Expanded Clay-Paraffin Wax-Geo-Polymer Composite Material. *materials* 11 (11), 2191
11. Alkhatib, O.J., An interactive and blended learning model for engineering education, *Springer Journal of Computers in Education*, 2018, 5: 19. <https://doi.org/10.1007/s40692-018-0097-x>
12. Galal Ahmed, Khaled (2018) Instinctive participation: community-initiated mechanisms for managing and maintaining urban poor settlements in Cairo, Egypt, *Urban Research & Practice*, DOI: 10.1080/17535069.2018.1451555, <https://doi.org/10.1080/17535069.2018.1451555>
13. Galal Ahmed, Khaled (2018) "From 'Rigid' to 'Resilient': A Proposed Self-Build Relocatable SIP Construction Mechanism for Sustainable Social Housing Models in UAE." *Buildings*, Vol. 8, No. 4, 58. doi:10.3390/buildings8040058, <http://www.mdpi.com/2075-5309/8/4/58>

14. Haddad, M. Intermediate HSS Bracing Members during Seismic Excitations: Modeling, Design, and Behavior. *Frontiers of Structural and Civil Engineering Journal*, 2018, Volume 12, Issue 1, pp 148 – 162.
15. Numayr, K., Mesmar, S., Haddad, M. Dynamic analysis of tapered thin-walled masts. *Journal of Engineering Science and Technology*. 2018, Volume 13, No. 7, pp 2106 – 2124.
16. Agiel, A., Lang, J., & Caputi, P. (2018). Assessing perceptions of Di Fausto's neo-traditional architecture based on Personal Construct Methodology. *Personal Construct Theory and Practice*. (In press)
17. Khoukhi, M. (2018), The combined effect of heat and moisture transfer dependent thermal conductivity of polystyrene insulation material: Impact on building energy performance. *Energy and Buildings*, 169: 228-235.
18. Muhammad Tariq Shafiq et. al., (2018) Workflows for Model Server Enabled Collaboration on Building Information Models, *Journal of Frontiers on Engineering Management*, ISSN 2095-7513, Vol. 5, Issue (3) 298-306

Conferences

1. Tabet Aoul, K. A., Hagi, R., Abdelghani, R., Akhozheya, B., Syam, M., Karaouzene, R. (2018) "The Existing Residential Building Stock in UAE: Energy efficiency and retrofitting opportunities", 6th Annual International Conference on Architecture and Civil Engineering - ACE 2018, 14-15 May 2018, Singapore, pp 598-602.
2. Tabet Aoul, K., (2018) "Educating tomorrow's professional towards a sustainable built environment; Achievements and Challenges", Amps (Architecture, media, politics society) Int. Conf. 2018, Constructing an Urban Future: The sustainability and resilience of cities – infrastructures, communities, buildings and housing, Abu Dhabi, 18-19 March 2018.
3. Tabet Aoul, K., Sriti, L., (2018) "Climate resilience of self-built housing under a hot climate; Algeria" in the Proc. of the 6th Zero Energy Mass Custom Homes Int. Conf, Melbourne- Australia, 29 Jan – 2 Feb 2018, pp. 613-624.
4. Tabet Aoul, K., (2018) "Bridging the Gap between Technical knowledge versus Ethical Commitments to a Sustainable Built Environment" in the Proceedings of the 6th Zero Energy Mass Custom Homes International Conference, Melbourne- Australia, 29 Jan – 2 Feb 2018, pp. 667-676.
5. Hagi, R., Syam, M., Akhozheya, B., Abdelghani, R., Karaouzene, R., Tabet Aoul, K*, (2018) "Thermal imaging assessment of building envelope performance in the UAE existing housing" in the Proceedings of the 6th Zero Energy Mass Custom Homes International Conference, Melbourne- Australia, 29 Jan – 2 Feb 2018, pp. 677-690.
6. Akhozheya, B., Abdelghani, B., Syam, M., Tabet Aoul, K*, (2018) "Retrofit evaluation of a residential building in UAE; Energy efficiency and renewable energy" in the Proceedings of 5th International Conference on Renewable Energy Generation and Application: Energy Storage Towards Sustainable Buildings, Al Ain, United Arab Emirates, 26 – 28 Feb 2018, pp 238-242 [IEEE Conference] – [Sure+ 2017]
7. Ferrándiz, Jose; Fernando del Ama Gonzalo; David Fonseca and Khaled Galal Ahmed (2018) BIM Implementation at the Construction Courses in the Architectural Engineering in the United Arab

- Emirates University, in the Proceedings of the 12th BIM Academic Symposium. 26-27 March 2018, Orlando, FL.
8. Haggag, M.; A. Hassan; G. Qadir, Environmental Benefits of Vegetated Green Wall in Hot-Arid Climate of Al-Ain, UAE, Proceedings of the 6th International Conference on Zero Energy Mass Customized Housing - ZEMCH 2018, 29 Jan.-1 Feb. 2018, Melbourne, Australia.
<http://commercial.unimelb.edu.au/custom-education/search-courses/architecture/ZEMCH2018>
 9. Haggag, M.; A. Hassan; G. Qadir; S. Abdel Qader, Air Pre-Cooling through Phase Change Material to Reduce Peak Air-Conditioning Demand in Hot Climate, Conference Proceedings, International Academic Conference on Engineering, Technology and Innovations (IACETI), 24-25 June 2018, Hong Kong.
 10. S AbdelBaqi, A Hassan, AH Shah. Performance Optimization of Concentrated Photovoltaic-Thermal (CPV-T) System Employing Phase Change Material (PCM) in hot Climate. World Renewable Energy Congress & Exhibition -18, 26-30 July ,Edinburgh, , UK.
 11. Ferrándiz, Jose; Fernando del Ama Gonzalo; David Fonseca and Khaled Galal Ahmed (2018) BIM Implementation at the Construction Courses in the Architectural Engineering in the United Arab Emirates University, in the Proceedings of the 12th BIM Academic Symposium. 26-27 March 2018, Orlando, FL.
 12. Omar J. Al-Khatib, A framework for Implementing Higher-Order Thinking Skills (Problem-Solving, Critical Thinking, Creative Thinking, and Decision Making) in Engineering, Innovations in Engineering Education-IEEE Conference Publication. ieeexplore.ieee.org (2019).
 13. Galal Ahmed, Khaled (2018) Constructability of an Estidama and Building Codes Compliant SIP System in Adaptive Public Housing in UAE, in the Proceedings of the International Conference; Constructing an Urban Future: The sustainability and resilience of cities – infrastructures, communities, buildings and housing, 18-19 March, Abu Dhabi, UAE.
 14. Galal Ahmed, Khaled (2018) Harmonizing Sustainability Dimensions: A Community-Oriented Design For 'Vertical' Social Housing in UAE, in the Proceedings of the IAHS 42th World Congress on Housing, 10-13 April, Naples, Italy.
 15. Yazdi, Hussein Ali and Khaled Galal Ahmed (2018) Social Sustainability in Recent Government-developed Neighbourhoods in Dubai: Al Barsha North Case Study, in the Proceedings of the IAHS 42th World Congress on Housing, 10-13 April, Naples, Italy.
 16. Galal Ahmed, Khaled (2018) Sustainable Modes of Mobility in New Urban Neighborhoods in UAE: Assessing Walkability and Bikability, in the Proceedings of the AUEIRC'18: 2nd AUE International Research Conference, 13-15 November, Dubai, UAE.
 17. Haddad, M., Haddad R., Al Qadi, A., Al-Mattarneh H. Inelastic cyclic behavior and fracture of Wide Flange steel brace members. Proceedings of the 16th European Conference on Earthquake Engineering (16ECEE), Greece, 18-21 June, 2018. Paper ID: 12211.
 18. Sahera Bleibleh, Michael Vicente Perez, and Thaira Bleibleh. "Palestinian Refugee Women and the Jenin Refugee Camp: Reflections on Urbicide and the Dilemmas of Home in Exile." *Urban Studies* (2019): 4209801881178.
 19. Albattah, M. (2018). "A New Metric to Determine Current Skills' Availability in the Construction Industry." CAIC-SIUD Conference, Jakarta, Indonesia, November 12th, 2018.
 20. Khoukhi, M. "Simultaneous changes of temperature and moisture of thermal conductivity of EPS insulation material and its impact on building energy performance". 3rd International Conference on Green Energy Technology (ICGET 2018), Amsterdam, Netherlands, 10-12 July, 2018.

21. Muhammad Tariq Shafiq., Lockley, S,R (2018) Signature-based matching of IFC Models, 35th International Symposium on Automation and Robotics in Construction (ISARC 2018), Berlin, Germany.
22. Young Ki Kim, Hasim Altan (2018) “Analysis of Energy Reduction through HVAC Commissioning : A Case Study of a LEED Certified New Building”, 5th International Conference on Renewable Energy Generation and Applications, 26th – 28th February 2018, UAEU, Al Ain, UAE.
23. Hasim ALTAN, Zahraa ALSHIKH, Vittorino BELPOLITI, Young KI KIM, Zafar SAID, Monadhil AL-CHADERCHI (2018) “The impact of cool roof on the solar PV applications on building rooftops Experimental case in Sharjah, UAE”, 17TH International Conference on Sustainable Energy Technologies-SET 2018, 21st – 23rd August 2018, Wuhan, China.

Book Chapters

1. Galal Ahmed, Khaled (2018) Designing Sustainable Urban Social Housing in the United Arab Emirates, in Arman Hashemi (Ed.) Climate Change Mitigation and Adaptation—ZEMCH 2016, Switzerland: MDPI, pp: 51-72, ISBN 978-3-03842-965-4 (Pbk) ISBN 978-3-03842-966-1 (PDF) <https://doi.org/10.3390/books978-3-03842-966-1>, <http://www.mdpi.com/books/pdfview/book/636>
2. Galal Ahmed, Khaled (2018) Sustainable Urban Regeneration Strategies for Deteriorated Neighbourhoods Centers in UAE. In: Firat S., Kinuthia J., Abu-Tair A. (eds) Lecture Notes in Civil Engineering, Vol 6. Springer, Cham, pp: 736-749, Print ISBN 978-3-319-63708-2, Online ISBN 978-3-319-63709-9, DOI https://doi.org/10.1007/978-3-319-63709-9_56

Patents

1. U.S. – Patent Application No. 16/058,457, official filing date 8th August 2018, Dr. Ahmed Hasan, Dr. Kheira Anissa Tabet Aoul and Dr. Rashed Al Shaali “A Therapeutic Method and System for Treatment of Vitamin D Deficiency Utilizing a Full Spectrum of Natural Solar Radiation” – [Filed]
2. Ahmed Hasan, Kheira Anissa Tabet Aoul and Rashed Al Shaali. A Therapeutic Method and System for Treatment of Vitamin D Deficiency Utilizing a Full Spectrum of Natural Solar Radiation U.S. – Patent Application No. 16/058,457, official filing date 8th August 2018, “” – [Filed]