

Dr. –Ing. Salem Buhashima Abdalla Salem

EDUCATION

- Dr. –Ing.” Architecture Engineering, 2009
Faculty VI Planning Building Environment
Institute of Architecture
Technical University Berlin (TU Berlin)
Berlin, Germany
- Master of Science (MSc), 2002
School of Architecture and Built Environment
Faculty of Science and Engineering
University of Wolverhampton, UK
- Construction Engineering Technology-Architecture, 1996
Niagara College of Applied Arts and Technology
Welland, ON, Ontario
Canada

ACADEMIC EXPERIENCE

- University of Sharjah, United Arab Emirates (2012 - present)
- Alfatah University, Tripoli, Libya 2010 – 2011 (Adjunct Professor)
- Altahadi University, Sirte, Libya 2002 – 2003 (Part-time Lecturer)

NON-ACADEMIC EXPERIENCE

- Engineering Consulting Office for Utilities (ECOU), Tripoli, Libya (2010 – 2011)

CURRENT MEMBERSHIPS IN PROFESSIONAL ORGANIZATIONS

- Member of ACADIA – Association for Computer-Aided Design in Architecture

SERVICE ACTIVITIES

- ABET and CAA accreditation committee chair (2018-Present)
- Chairman of the Architectural Engineering Dept. (12/13 – 15/16).
- Member of the College of Engineering Council (2012 – 2016).
- External Academic Advisor for the Graphic Design and Interior Architecture Engineering Program, Dhofar University, Sultanate Oman.

PUBLICATIONS

- **Abdalla, S. B.**, Rashid, M., & Ara, D. R. (2021). Plausibility of CAAD in Conceptual Design: Challenges in Architectural Engineering for Early-Stage Digital Design Tools. *Journal of Architectural Engineering*, 27(2), 04021004.
- **Abdalla, S. B.**, Rashid, M., Yahia, M. W., Mushtaha, E., Opoku, A., Sukkar, A., ... & Hamad, R. (2023). Comparative Analysis of Building Information Modeling (BIM) Patterns and Trends in the United Arab Emirates (UAE) with Developed Countries. *Buildings*, 13(3), 695
- **Abdalla, S. B.**, Mushtaha, E., Rashid, M., Opoku, A., Hamad, R., Dweiri, F., & Elmualim, A. (2023). Pre-design CSFs (critical success factors) of building projects for Dubai's development boom. *Built Environment Project and Asset Management*, 13(3), 359-374.
- **Abdalla, S.** Incorporating Building Information Modeling (BIM) into the multi-disciplinary educational format: Case Study College of Engineering, University of Sharjah, 8th International Forum on Engineering Education (IFEE2017) Advances in Engineering Education, 18-20 APRIL 2017, University of Sharjah, United Arab Emirates
- Manzoor, B., Othman, I., Gardezi, S. S. S., Altan, H., & **Abdalla, S. B.** (2021). BIM-based research framework for sustainable building projects: a strategy for mitigating BIM implementation barriers. *Applied Sciences*, 11(12), 5397.
- Rashid, M., Ara, D. R., & **Abdalla, S. B.** (2022). Mapping socio-physical legacies of Emirati villas: contingency and spatial continuity or rift. *City, Territory and Architecture*, 9(1), 3.

- Opoku, A., Deng, J., Elmualim, A., Ekung, S., Hussien, A. A., & **Abdalla, S. B.** (2022). Sustainable procurement in construction and the realisation of the sustainable development goal (SDG) 12. *Journal of Cleaner Production*, 376, 134294.
- Sukkar, A., Yahia, M. W., Mushtaha, E., Maksoud, A., **Abdalla, S. B.**, Nasif, O., & Melahifci, O. (2023). Applying active learning method to improve teaching outcomes in architectural engineering courses. *Open House International*, (ahead-of-print).
- Yahia, M. W., Abdalla, S. B., Sukkar, A., Saleem, A. A., & Maksoud, A. M. (2023). Towards Better Site Analysis in Architectural and Urban Design: Adapting Experiential Learning Theory in Post-COVID Architectural Teaching Methods. *Archives of Design Research*, 36(4), 51-65.
- **Abdalla, S. B.**, The AEC new paradigm shift: BIM trend in the UAE, 19th International conference on Researches in Engineering , Technology and Sciences (ICRETS), September 17-18, 2015, London, Uk.
- **Abdalla S. B.**, Digital replacing analog: Integration of CAD within architectural design process. 4th Annual International Conference on Architecture, 7-10 July 2014, Athens, Greece.
- **Abdalla S. B.**, Cyrene Declaration: impetus to protect the archaeological and natural treasures of the Green Mountain in Eastern Libya. CSAAR 2011 (Conservation of Architecture, Urban Areas, Nature & Landscape: Towards a Sustainable Survival of Cultural Landscape). 14-16 March 2011, Amman, Jordan.

RESEARCH GRANTS

- (2023) Competitive Grant: Green roof effects on thermal and energy performance for residential buildings in UAE, (approved).
- (2022) Seed Grant: A Framework for Integrating the SDGs into Business: the case of the AEC industry in the UAE (FISB) (Co. investigator), (approved).
- (2021) Competitive Grant: Critical Success Factors (CSF) for the rapid development of Dubai: the case of Sheikh Zayed Road (PI) (AE 72 000 approved)
- (2020) Seed Grant: Post-occupancy evaluation of sustainable facilities Management in the UAE: energy analytics and occupants' behavior. (Co. investigator), (AED 40 000 approved).
- (2019) Seed Grant: Investigating the Potential of Digital Applications within Heritage Management Context of Sharjah. Co. investigator, (AED 40000, Approved)
- 2017 Geometry-Based Passive Design and Computational Morphogenesis of Building Skins in a Hot Climate with Particular Reference to Sharjah, UAE (AED 40000). (Co-investigator), seed research project (approved).
- 2016 Solar Decathlon Middle East 2018, international competition. Project vice- manager.
- 2015 Harnessing the wind power in generation of clean energy in the cities of UAE : Maximizing the impact of in urban settings on Building Integrated Wind Turbine (BIWT)., (AED 80,000), (Co-investigator), Competitive research project , (approved)
- 2015 Regenerating Sharjah: Energy Performance and LCA Analysis to Promote Sustainable Urban Refurbishment Actions for the Modern Building Heritage in the heart of Sharjah. (Co-investigator) Competitive research project (AED 80,000), submitted.
- 2014 Integrated BIM Project: towards an interdisciplinary Design Studio, seed project, PI, (AED 20000) University of Sharjah (completed)

INTERNATIONAL CONFERENCES

- The joint 8th IFEE2017 and 3rd TSDIC2017, Sharjah, UAE, April 18–20, 2017.
- 14th International Conference on Construction Applications of Virtual Reality 16 - 18 Nov, 2014, Radisson BLU Hotel, Sharjah, UAE
- 4th Annual International Conference on Architecture, 7-10 July 2014, Athens, Greece
- 17. Leipziger Bauseminar an der Universität Leipzig, 02.12.2007 und 03.12.2007
- Xth International Conference on Computing in Civil and Building Engineering (ICCCBE) : June 02-04, 2004, Weimar (Germany):.

RECENT PROFESSIONAL DEVELOPMENT ACTIVITIES

- "Writing Effective Course Learning" workshop, 30 Jan. 2017
- Autodesk University Middle East 2016, Dubai, 6 Dec. 2016
- Participate in the "Roundtable" What Architects wants from Academia. Middle East Architects, ITP, Publishing group.
- Certificate in BIM Collaboration – Revit 2015.