

Nawari. O. NAWARI, Ph.D., P.E., F.ASCE

School of Architecture, College of Design, Construction & Planning, University of Florida.

SUMMARY

Dr. Nawari has more than twenty-five years of experience in design, teaching, and research specializing in Architectural Structures and Building Information Modeling (BIM). Currently, he teaches graduate and undergraduate Architectural Structures, Sustainability and Resilience, and Building Information Modeling courses at the University of Florida. Dr. Nawari has written and co-authored over 125 publications and five books. He is a frequent contributor to and speaker at national and international conferences. He has contributed to the design profession with several engineering innovations during his career. Nawari's works open the door to new paradigms in teaching and designing building structures using the Structure and Architecture Synergy (SAS) Framework. Also, his research in BIM standardization has led to significant advancement of BIM standardization, particularly in the built environment. Moreover, he has contributed significantly to the concept of encoding building rules and regulations and methods for automating building code conformance checking in BIM workflow, such as the innovative Generalized Adaptive Framework (GAF). He is a member of the BIM committee of the Structural Engineering Institute (SEI) and co-chair the subcommittee on BIM in education. Dr. Nawari is a board-certified professional engineer in the state of Florida and Ohio with significant design and built experience. He is also a member of the US National Building Information Modeling Standard Committee (NBIMS-US), and a fellow of the American Institute of Civil Engineers (ASCE). Dr. Nawari received the 2014-2015 Fulbright U.S. Scholar grant for teaching and research in Kuwait.

EDUCATIONAL BACKGROUND

Institution	Field of Study	Degree	Year
Technical University of Darmstadt, West Germany	Engineering	Ph.D.	1992
Goethe-Institut, Mannheim	German Language	High Diploma	1988
University of Khartoum	Structural Engineering	M.Sc.	1987
University of Khartoum	Civil Engineering	B. Sc. (Honors)	1983

ACADEMIC EMPLOYMENT

Institution	Position	Dates
University of Florida	Assistant Dean for Graduate Education	2017-2019
University of Florida	Associate Professor	2013-present
University of Florida	Assistant Professor	2009 - 2012
Kent State University	Assistant Professor	2005-2008
University of Akron	Assistant Professor	1997-2000
The Technical University of Darmstadt, Darmstadt, West Germany.	Lecturer	1992-1994

RECOGNITIONS & AWARDS

- **Advanced Structural Steel Education Award (2018)**
American Institute of Steel Construction (AISC).
- **DCP Graduate Faculty Teaching Award (2018).**
College of Design, Construction, and Planning (DCP).
- **Awarded University of Florida Term Professor status (2017).**
- **Elected Fellow of the ASCE**
Elected Fellow of the American Society of Civil Engineers (ASCE) in April 2016, in recognition of career achievements.
- **Fulbright U.S. Scholar Grant**
Received the 2014-2015 Fulbright U.S. Scholar Grant for teaching and research at Kuwait University, Kuwait.
- **Outstanding Reviewer**
Awarded the status of Outstanding Reviewer for the International Journal of Automation in Construction, Elsevier, 2015.
- **Most Viewed Paper**
The paper: "BIM Standard in Off-Site Construction." *J. Archit. Eng.*, 10.1061/(ASCE)AE.1943-5568.0000056, 107-113, is one of the most viewed paper of the Journal of Architectural Engineering, ASCE, <http://ascelibrary.org/journal/jaeied>.
- **AIA Design Honor Award**
Structural engineer for the Schoolhouse Island project that received the Honor Award for Design Excellence, Unbuilt Design Category, School House Island m_gold design & consulting, Gainesville, Florida Chapter of the AIA, 2008.

Recent Graduate Committee Activities

Role	Student	Major	Complete Date
Chair Ph.D.	Ayad Almainani	Design, Construction, and Planning	May 2018
Chair Ph.D.	Mouloud Messaoudi	Design, Construction, and Planning	May 2021
Chair Ph.D.	Samira Roostaie	Design, Construction, and Planning	May 2021
Chair Ph.D.	Fatma Hasanain	Design, Construction, and Planning	May 2023
Chair Ph.D.	Shriraam Ravindran	Design, Construction, and Planning	May 2023
Member Ph.D.	Ashish Asutosh	Design, Construction, and Planning	May 2022

		Planning	
Member Ph.D.	Khalid Abolkhair	Design, Construction, and Planning	May 2022
Member Ph.D.	Mohamad Ahmadzade Razkenari	Design, Construction, and Planning	August 2019
Member Ph.D.	Kaiqi Wang	Civil & Coastal Engineering	May 2019
Member Ph.D.	Shashank Menon	Civil & Coastal Engineering	May 2021
Member Ph.D.	Ebeneze Tackey-Otoo	Design, Construction, and Planning	May 2019
Member Ph.D.	Sarah Rajkumari Jayasekaran	Civil & Coastal Engineering	December 2018
Member Ph.D.	Samuel A. Babatunde	Civil & Coastal Engineering	December 2018
Member Ph.D.	Rodrigo Antunes	Civil & Coastal Engineering	May 2018
Chair Master's	Francisco J Garcia-Nieto	Architecture	May 2019
Chair Master's	Abdulrahman M Saiqal	Architecture	August 2019
Chair Master's	Alyse A Buzzelli	Architecture	August 2018
Chair Master's	Katlin M McCarter	Architecture	August 2018
Chair Master's	Luyao Xiao	Architecture	August 2018
Chair Master's	Damon Abruzere	Architecture	December 2018
Chair Master's	Michael A. Germano	Architecture	May 2018
Chair Master's	Phillip Lantry	Architecture	May 2018
Co-Chair Master's	Anjala Salim	Architecture	August 2018
Co-Chair Master's	Brittany Perez	Architecture	May 2018
Co-Chair Master's	Jose Esquilin	Architecture	May 2018

- Advising more than 75 Ph.D. and M.SC. Students,

SCHOLARSHIP & RESEARCH

Books:

1. **“Building Information Modeling: Automated Code Checking and Compliance Processes”**: (in progress), CRC Press, Taylor and Francis Group. <http://www.crcpress.com/>; March 2018. ISBN-13: 978-1498785334.
The new book covers current and emerging trends in automating the processes of examining construction documents against building codes and standard of practices. Moreover, the book introduces a new comprehensive framework for automating building regulations compliance checking to attain design efficiency and cost-effectiveness.
2. **“Tropical Storms as a Setting for Adaptive Development and Architecture”**, Proceedings of 6th International Network of Tropical Architecture Conference 2017, iNTA 2017. March 2018, ISBN: 9781980443513. Gainesville, Florida, December 1-3, 2017.
3. **“Building Information Modeling: Framework for Structural Design”**: ISBN-13: 978-1482240436, ISBN-10: 1482240432, CRC Press, Taylor, and Francis Group. <http://www.crcpress.com/>; spring 2015.

The book is concerned principally with the application of Building Information Modeling (BIM) in designing building structures and the current advancements in collaborative design.

4. **“Building Structures: Fundamental of crossover design”**, ISBN 978-1-60927-673-7; August 2011. University Readers, Inc. & Cognella Academic Publishing, USA. The book is concerned principally with the fundamentals of structures in architecture and in particular its contribution to achieving architectural structures objectives.
5. **“Analyzing Building Structures”**, ISBN 978-1-60927-581-5. University Readers, Inc. & Cognella Academic Publishing, USA; fall 2012. This book contains complementary material to the book “Building Structures: fundamental of crossover design.” The book includes exercises and materials that facilitate comprehension of essential information presented in the first book

Books, Contributor of Chapter(s):

- **“Building Information Modeling (BIM) for Structural Engineering”**, (in press), In *“Structural Engineering Handbook”*, by Edwin H. Gaylord Jr., Charles N. Gaylord, James Stallmeyer, McGraw-Hill Education; Fifth edition, December 2018.
- **“Bionic Patterns in Architectural Structures”**, In *“Structures and Architecture: Beyond their Limits”*, Paulo J. da Sousa Cruz (Editor}, CRC Press, ISBN 9781138026513, July 2016; 458 pages.
- **“BIM as a Framework for Structural Design”**. In *“Building Information Modeling: Applications and Practices in the AEC Industry”*, Raja R.A. Issa and Svetlana Olbina (Editors). American Society of Civil Engineers (ASCE), ISBN: 978078447913, 1 2015.

Recent Refereed Journals:

1. Nawari, N. O. (2019). “A Generalized Adaptive Framework for Computerizing the Building Design Review Process”, Accepted, *Journal of Architectural Engineering (JAE), ASCE, 2019.*
2. Nawari, N. O. (2019). “BIM Data Exchange Standard for Hydro-supported Structures,” *Journal of Architectural Engineering (JAE), ASCE, 25 (3), 2019, 04019015.*
3. Nawari, N. O. and Ravindran, S.[§] (2019). “Blockchain and the built environment: Potentials and limitations”, *Journal of Building Engineering, Volume 25, September 2019, Elsevier, 100832.*
4. Nawari, N. O. and Ravindran, S.[§] (2019). “Blockchain and Building Information Modeling (BIM): Review and Applications in Post-Disaster Recovery”, *Buildings 9 (6), 2019, 149, MDPI, Basel, Switzerland.*
5. Nawari, N. O. (2019). “A Generalized Adaptive Framework (GAF) for Automating Code Compliance Checking”, *Buildings 9 (4), 86, MDPI. Basel, Switzerland.*
6. Nawari, N. O. and Ravindran, S.[§] (2019). “Blockchain technology and BIM process: Review and potential applications”, *Journal of Information Technology*

- in Construction (ITcon) 24 (12), 2019, 209-238.*
7. Roostaie, S.^g Nawari, N., and Kibert, C.J.^f (2019). "Sustainability and resilience: A review of definitions, relationships, and their integration into a combined building assessment framework", *Building and Environment, Volume 154, May 2019, Elsevier, Pages 132-144.*
 8. Roostaie, S.^g Nawari, N., and Kibert, C.J.^f (2019). "Integrated Sustainability and Resilience Assessment Framework: From Theory to Practice", *Journal of Cleaner Production, Volume 232, 20 September 2019, Pages 1158-1166.*
 9. Almaimani A.^g, and Nawari, O.N. (2018). "BIM-Driven Design Approach for Islamic Historical Buildings." *Arabian Journal for Science and Engineering (AJSE), SSN: 2193-567X (Print) 2191-4281 (Online), Springer.*
 10. Beam, J.^g, Nawari, N. O, Tilson, W.^f (2018). "Mental Health & Resiliency: Designing Participatory Nature Dependent Environments and Communities for a Sustainable Future." *Journal of Sustainable Development (JSD), ISSN 1913-9063 (Print), Vol. 11, No. 3, pp.234-250.*
 11. Almaimani A.^g, Nawari, O.N. (2017). "BIM-driven library for Historic Islamic Structures", *Journal of Information Technology in Construction (ITcon) Vol. 22, pg. 266-286, <http://www.itcon.org/2017/14>.*
 12. Almaimani, A.^g and Nawari, N. O. (2017). "BIM-Driven Components Library for Islamic Facilities (BIM-IF)". *Visualization in Engineering (2017) 5:6, DOI 10.1186/s40327-017-0041-6.* Springer, ISSN: 2213-7459.
 13. Asutosh, Ashish T.g.^g, and Nawari, N. O. (2017). "Integration of Recycled Industrial Wastes into Pavement Design and Construction for a Sustainable Future". *Journal of Sustainable Development, Vol. 10, No. 1, 2017, pp.9-23, ISSN 1913-9063 (Print), ISSN 1913-9071 (Online).*
 14. Dobbies, B.^g, Volk, M.^f, and Nawari, N. O. (2017). "Living Shoreline Treatment Suitability Analysis: A Study on Coastal Protection Opportunities for Sarasota County". *Journal of Sustainable Development, Vol. 10, No. 1, 2017, pp.55-70, ISSN 1913-9063 (Print), ISSN 1913-9071 (Online).*
 15. Nawari, N. O. and Alsaffar, A.^f (2016). "Planning and Development of BIM Curriculum for Kuwait", *Journal of Civil Engineering and Science (JCES), 2016, Vol. 5 Iss. 1, pp. 15-32.*
 16. Sellers, M.g.^g and Nawari, N. O. (2016). "Bamboo Fiber-Reinforced Composites for Tall Buildings", *Journal of Construction and Building Material, Lawrence Press, July 2016, Vol. 1., No. 1, pp.1-11.*
 17. Sheng, R.^g and Nawari, N. O. (2016). "Analysis of stormwater management systems: Sustainable Approaches for Wuhan, China". *Journal of Sustainable Development, SSN 1913-9063 (Print), ISSN 1913-9071 (Online), Vol 9, No 1 (2016), pp.89-98, Canadian Center of Science and Education.*
 18. Nawari, N. O. and Alsaffar, A.^f (2015). "Understanding Computable Building Codes". *Journal of Civil Engineering and Architecture, 3(6): 163-172, Horizon Research Publishing corp.*
 19. Aquino, I.^g and Nawari, N. O. (2015). "Sustainable Design Strategies for Sport Stadia," *Suburban Sustainability: Vol. 3: Iss. 1, Article 3.*
 20. Porter, M.^g, William, T. L.^f, and Nawari, N. O. (2015). "Disaster Relief Structural Framework: Transitional to Permanent". *The International Journal of*

- Civil Engineering Science (JCES), World Academic Publishing. Mar. 2015, Vol. 4 Iss. 1, pp. 27-44.
21. **Nawari, N. O.** (2013). “Studying Architectural Structures using BIM Tools”. *The International Journal of Civil Engineering Science (JCES)*, World Academic Publishing, June 2013, Vol. 2 Iss. 2, pp.37-47.
 22. **Nawari, N. O.** (2013) “Studying Architectural Structures using BIM Tools”. Publication in *The International Journal of Civil Engineering Science (JCES)*, World Academic Publishing, June 2013, Vol. 2 Iss. 2, pp.37-47.
 23. **Nawari, N. O.** (2012). “BIM Standard in Offsite Construction”. *Journal of Architectural Engineering (JAE)*, ASCE, Vol. 18, No. 2, June 1, 2012. ©ASCE, ISSN 1076-0431/2012/2-107–113.
 24. **Nawari, N. O.** (2012). “Automating Codes Conformance”. *Journal of Architectural Engineering (JAE)*, ASCE, Vol. 18, No. 4, December 1, 2012. ©ASCE, ISSN 1076-0431/2012/4-315–323.
 25. **Nawari, N. O.** (2012). “Masonry BIM and the Structural Domain”. Publication in the *Journal of Civil Engineering and Architecture*, ISSN 1934-7359, USA, June 2012.
 26. **Nawari, N. O.** (2012). “BIM Standard in the Structural Domain”. *The International Journal of Civil Engineering Science (JCES)*, JCES Volume 1, Issue 2 June 2012 pp. 42-51, World Academic Publishing.
 27. **Nawari, N. O.** (2011). “A Framework for Automating Codes Conformance in Structural Domain”. *Journal of Computing and Information Technology, Volume 1, No.1*, pp.35-48, 2011.
 28. **Nawari, N. O.** (2012). “Automating Codes Conformance”. *Journal of Architectural Engineering (JAE)*, (ASCE), Volume 18, Issue 4, December 2012.
 29. **Nawari, N. O.** (2010). “Intelligent Design in AEC Education”, *Journal of Information Technology in Construction, ITcon. Vol. 15*, Special Issue Advanced Digital Technologies for Built Environment Education and Learning, pp. 306-317, 2010/23.
 30. **Nawari, N. O.** (2010). “Evaluation of Intelligent Codes in Sustainable Design”, publication in *HBRC Journal, Housing and Building National Research Center*, Cairo, Egypt, December 2010.
 31. **Nawari, N.** (2000). “Fuzzy-based approach for determination of characteristic values of measured geotechnical parameters”, *Canadian Geotechnical Journal/Rev. Can. Geotech.* 37(5): 1131-1140 (2000)
 32. **Nawari, N.** (1999). “Artificial Intelligence Techniques for the Design and Analysis of Deep Foundations”, *Electronic Journal of Geotechnical Engineering*, Volume 4, 1999
 33. **Nawari, N.** (1997). “Stability Analysis of Rock Slopes with the Direct Sliding Blocks Method”, *International Journal of Rock Mechanics*, Vol.34, No.314, pp.516, 1997.
 34. **Nawari, N.** (1997). “Determination of the Characteristic values with respect to the new European Codes in Civil Engineering using Fuzzy Modeling”, (in German) in the *Journal of ‘Die Bautechnik’*, Berlin, Heft 4, April 1997. pp.227-232.

Refereed Proceedings

35. Hasanain, F.^g, Nawari, N. O. (2020). “BIM-based Metric for Sustainable Built Environment in Saudi Arabia”, Accepted, *The ASCE Construction Research Congress (CRC) 2020*, ASCE, March 8-10, 2020, Tempe, Arizona.
36. Hasanain, F.^g, Nawari, N. O. (2020). “BIM-BASED METRIC FOR SUSTAINABLE BUILT ENVIRONMENT IN SUBTROPICS”, Accepted, *the 7th International Network of Tropical Architecture (iNTA) Conference*, the University of Queensland in Brisbane, Australia 5 – 8 December 2019.
37. Costin, A.^f, Nawari, N., Adibfar, A.^g, Eastman, C.^f (2019). “Preliminary Evaluation of the Industry Foundation Classes (IFC) to Enable Smart City Applications” *The CIB World Building Congress 2019 (CIB WBC 2019) ‘Constructing Smart Cities’*, Hong Kong Polytechnic University, Hong Kong, China, June 17-21, 2019.
38. Nawari, N. O. and Ravindran S.^g (2019). “Blockchain Technologies in BIM Workflow Environment”, *Proceedings of the 2019 ASCE International Conference on Computing in Civil Engineering*, June 17–19, 2019, Atlanta, Georgia, pp. 343-352.
39. Messaoudi, M.^g, Nawari, N. O., and Srinivasan, S. (2019). “Virtual Building Permitting Framework for the State of Florida”, *Proceedings of the 2019 ASCE International Conference on Computing in Civil Engineering*, June 17–19, 2019, Atlanta, Georgia, pp.328-335.
40. Roostaie, S.^g and Nawari, N. (2019). “Healthcare Facilities Resilience: Impact of Utility interruptions during natural hazards”, *Proceedings of the Edra50Brooklyn conference - Sustainable Urban Environments*, May 22-29, 2019, Brooklyn, New York.
41. Nawari N.O. (2018). “BIM Data Exchange Standard for Hydro-Generated Structures”, *Proceeding of the 17th International Conference on Computing in Civil and Building Engineering*, Tampere, 5-7 June 2018, Finland.
42. Nawari, N. O. and Alsaffar, A.^f (2017). “The Role of BIM in Simplifying Construction Permits in Kuwait”. *Proceedings of the AEI Conference 2017, Architectural Engineering Institute, ASCE, Oklahoma, Oklahoma City*, April 11-13, 2017, pp. 855-864.
43. Nawari, N. O., Messaoudi, M.^g, and HE, R.^f (2017). “Floating Structures as Adaptive Solution in the Tropical and Subtropical Regions”. *Proceeding of the International Network of Tropical Architecture Conference 2017 (iNTA17)*. Gainesville, Florida, December 1-3, 2017.
44. Almaimani, A. M.^g and Nawari, N. O. (2017). “The Role of BIM in Sub-Tropic Architectural Resiliency”. *Proceeding of the International Network of Tropical Architecture Conference 2017 (iNTA17)*. Gainesville, Florida, December 1-3, 2017.
45. Shoukry, D.^g and Nawari, N. O. (2017). “Environmental Design Methodology for Building Spaces in the Sub-Tropics”. *Proceeding of the International Network of Tropical Architecture Conference 2017 (iNTA17)*. Gainesville, Florida, December 1-3, 2017.

46. Almaimani, A. M.^g and Nawari, N. O. (2017). “Islamic Architecture in the Subtropics and Resiliency”. *Proceeding of the International Network of Tropical Architecture Conference 2017 (iNTA17)*. Gainesville, Florida, December 1-3, 2017.
47. Almaimani, A. M.^g and Nawari, N. O. (2016). “BIM-Driven Library for Islamic Arches”. Proceedings of the 33rd International CIB W78 Conference, Brisbane, Australia, November 2016.
48. Nawari, N. O. and Chichugova, T.^g (2016). “Application of Structure and Architecture Synergy Framework (SAS) Using BIM”. Proceedings of the 16th International Conference on Computing in Civil and Building Engineering, pp.357-364, Osaka, Japan, July 5-8, 2016.
49. Almaimani, A. M.^g and Nawari, N. O. (2016). “BIM-Driven Library for Islamic Architecture”. Proceedings of the 16th International Conference on Computing in Civil and Building Engineering, Osaka, Japan, July 5-8, 2016, pp.365-372.
50. Almaimani, A. M.^g and Nawari, N. O. (2016). “BIM-Driven Library for Islamic Arches”. *Proceedings of the 33rd CIB W78 2016 Conference*, The International Council for Research and Innovation in Building and Construction (CIB), Queensland University of Technology, Brisbane, Australia, November 2016.
51. Nawari, N. O. and Alsaffar, A.^f (2015). “Practical Approaches for Computable Building Codes”. In Proceedings of the 32nd international CIB W78 Conference, October 27th-29th 2015, Eindhoven, The Netherlands.
52. Nawari, N. O. and Alsaffar, A.^f (2015). “Advancing BIM Standardization: Floating Structures”. In Proceedings of the International Conference on Civil and Building Engineering Informatics (ICCBEI 2015), 78. Tokyo, Japan, 2015.
53. Almaimani, A.^g and Nawari, N. (2015). “BIM-Driven Islamic Construction: Part 1 – Digital Classification”. *Computing in Civil Engineering 2015*, ASCE: pp. 453-459.
54. Almaimani, A.^g and Nawari, N. (2015). “BIM-Driven Islamic Construction: Part 2—Digital Libraries”. *Computing in Civil Engineering 2015*, ASCE: pp. 460-46.
55. Abdulraheem, S. ^g and Nawari, N. O. (2015). “Sustainable Techniques for Public School in Florida: Application of the Sustainable Urban Drainage System (SUDS)”. Publication in the proceedings of the ASME 2015 9th International Conference on Energy Sustainability, PowerEnergy2015, June 28 - July 2, 2015, San Diego, California, USA
56. Nawari, N. O. and Alsaffar, A.^f (2014). “BIM Education: A Framework for Kuwait”. *Proceedings of the 14th International Conference on Construction Applications of Virtual Reality*, 16-18 November 2014, Sharjah, UAE, pp.132-139.
57. Nawari, N. O. “BIM Standard: Tensile Structures Data Modeling”, publication in the 15th International Conference on Computing in Civil and Building Engineering, Orlando, FL, June 22-25, 2014.
58. Nawari, N. O., Chichugova, T.^g, Mansoor, S., Delfin, L. “BIM in Structural Design Education”, publication in the 15th International Conference on Computing in Civil and Building Engineering, Orlando, FL, June 22-25, 2014.
59. Hammond, R.^g, Nawari, N. O., and Walter, B.^f “BIM in Sustainable Design: Strategies for Renovation and Retrofit”, publication in the 15th International

- Conference on Computing in Civil and Building Engineering, Orlando, FL, June 22-25, 2014.
60. **Nawari, N. O.** “BIM beyond Design”, proposed session for the Structural Congress 2013. Structural Engineering Instituted (SEI), ASCE. May 2-4, 2013, the Westin Convention Center Hotel Pittsburgh, PA.
 61. **Nawari, N. O.** “SmartCodes and BIM”, the Structural Congress 2013. *Structural Engineering Instituted (SEI), ASCE*. May 2-4, 2013, the Westin Convention Center Hotel Pittsburgh, PA.
 62. **Nawari, N. O.** “Collaborative BIM in Teaching Architectural Structures”, *Proceeding of the 29th International Conference on Application of IT in the AEC Industry*, CIB W7 2012 Conference, Beirut, Lebanon, 17-19 October 2012.
 63. **Alsaffar, A.*, Nawari, N. O., Muszynski, L. C. f.** “ Tilt-Up Design Software Verification For Lightweight Concrete Wall Behavior During Lifting”, *Proceeding of the 29th International Conference on Application of IT in the AEC Industry*, CIB W7 2012 Conference, Beirut, Lebanon, 17-19 October 2012.
 64. **Nawari, N. O.** “Understanding the interplay between Structure and Architecture using Building Information Modeling”. *Proceeding of the 2nd. International Conference Structure and Architecture, ICSA2013*, 24-26 July, 2013, Guimares, Portugal.
 65. **Nawari, N. O.** , and **Gutierrez, Audrey M. g.** “ Natural Structures and Innovative Design”, *Proceeding of the 2nd International Conference Structure and Architecture, ICSA2013*, 24-26 July, 2013, Guimares, Portugal.
 66. **Nawari, N. O.** “BIM-Model Checking in Building Design”, *Proceedings of the 2012 Structures Congress, ASCE, Chicago, March 29th –31st*, pp.941-952.
 67. **Nawari, N. O.** “BIM Standards: Advancement and Industry Deployment”, *Proceeding of the 14th. International Conference on Computing in Civil and Building Engineering, Moscow*, June 27-29, 2012.
 68. **Nawari, N. O.** “Automated Code Checking in BIM Environment”, *Proceeding of the 14th International Conference on Computing in Civil and Building Engineering, Moscow*, June 27-29, 2012.
 69. **Nawari, N. O.** “BIM Standardization and Wood Structures”, *Proceedings of the 2012 ASCE International Conference on Computing in Civil Engineering*, June 17-20, 2012, Clearwater Beach, FL.
 70. **Nawari, N. O.** “The Challenge of Computerizing Building Codes in BIM Environment”, *Proceedings of the 2012 ASCE International Conference on Computing in Civil Engineering*, June 17-20, 2012, Clearwater Beach, FL.
 71. **Nawari, N. O.** “Analysis and prediction of building damages due to windstorms”, *Proceeding of the “2nd International Conference on Disaster Management and Human Health: Reducing Risk, Improving Outcomes”*, pp.25-33, 11-13 May 2011, Orlando, FL.
 72. **Nawari, N. O.** “Masonry BIM and the Structural Domain”, publication in the 11th. North American Masonry Conference, Minneapolis, Minnesota, June 2011.
 73. **Nawari, N. O.** “Standardization of Structural BIM”, publication in the *Proceedings of the 2011 ASCE International Workshop on Computing in Civil Engineering*, pp.405-412, June 19-22, 2011, Miami, FL.
 74. **Nawari, N. O.** “Automating Code Conformance in Structural Domain”,

- publication in the Proceedings of the 2011 ASCE International Workshop on Computing in Civil Engineering, pp.569-577, June 19-22, 2011, Miami, FL.
75. Nawari, N. O., Itani, L^g, and Gonzalez, E^g. “Understanding Building Structures Using BIM Tools”, Proceedings of the 2011 ASCE International Workshop on Computing in Civil Engineering, pp. 478-485, June 19-22, 2011, Miami, FL.
 76. Nawari, N. and Sgambelluri, Marcello. “The Role of National BIM Standard in Structural Design”, Proceedings of the 2010 Structures Congress joint with the North American Steel Construction Conference in Orlando, Florida, May 12-15, 2010, pp. 1660-1671.
 77. Nawari, N. O. “Evaluation of Intelligent Codes in Sustainable Design”, Proceedings of the 6th. International Conference in Engineering and Construction, ASCE, Cairo Egypt, June 28 -30, 2010, pp.176-185.
 78. Sharag-Eldin, A. and Nawari, N. “BIM in AEC Education” Proceedings of the 2010 Structures Congress joint with the North American Steel Construction Conference in Orlando, Florida, May 12-15, 2010, pp.1676-1688.
 79. Nawari, N. “Intelligent Design Codes”, Structural Engineering Institute Congress 2009, ASCE, Austin, TX, pp.2303-2312.
 80. Nawari, N. “BIM and MIMS: Emerging Technologies”, Proceeding of the 2008 Architectural Engineering Conference, AEI 2008, ASCE, Denver, CO, 2008.
 81. Nawari, N. (2008). “The Role of Foundation Design in Progressive Collapse of Buildings”, Proceeding of the 2008 Architectural Engineering Conference, AEI 2008, ASCE, Denver, CO, 2008.
 82. Nawari, N. (2008). “The Role of Data Mining Techniques in the Prediction of Hurricane Damages”, Structural Engineering Institute Congress 2008, ASCE, Vancouver, CANADA, 2008.
 83. Nawari, N. (2008). “Design of Foundation against Progressive Collapse of Buildings”, Geocogress 2008, Geo-Institute, ASCE, New Orleans, Louisiana, 2008
 84. Nawari, N. (2008). “Masonry Information Management System (MIMS)”. The Tenth North American Masonry Conference, St. Louis, Missouri, June 3-6, 2007, 216-225.
 85. Nawari, N. (2007). “XPS Documents and their Applications in the Construction Industry”. 2nd International Conference on Construction Engineering and Management (ICCEM). March 1-2, 2007, Meritus Mandarin, Singapore.
 86. Nawari, N. (2006). “Geotechnical Data Mining Models (GDM) using MS SQL2005”. Joint International Conference on Computing and Decision Making in Civil and Building Engineering, Montreal, Canada, June14-16, 2006.
 87. Nawari, N. (2006). “The Role of C_o in Geo Informatics Systems”, publication in the Geo-Congress 2006, Atlanta, GA, ASCE, 2006.
 88. Nawari, N. and Liang, R (200). “Simplified Neural Network Models for Estimating Soil Resistance Using Dynamic Pile Test”. 6th. Int. Conf. On the application of Stress-Wave Theory to Piles, Sao Paulo, Brazil 2000.
 89. Nawari, N. and Liang, R (200). “Evaluation of Resistance Factors for Driven Piles”. ASCE Geotechnical Special Publication (GSP), New Technology and Design Development in Deep Foundation, Denver, 2000.
 90. Nawari, N. (200). “Intelligent Hybrid System for the Design of Pile

- Foundation”. ASCE Geotechnical Special Publication (GSP), New Technology and Design Development in Deep Foundation, Denver, 2000.
91. Nawari, N. and Liang, R (1999). “Neural Network Models for the Design of Pile Foundation”. Fifth International Conference on the Application of Artificial Intelligence to Civil and Structural Engineering, September 1999, Oxford, England.
 92. Nawari, N. and Liang, R (1999). “Characterization of Uncertainty in Underground Structures”. Third National Conference of the Geo-Institute of ASCE, June 1999, Urbana, IL, pp.282-293.
 93. Nawari, N. (1999). “Fuzzy-based stability investigation of sliding rock masses”, Int. Symposium on Slope Stability engineering, 8-11 November, 1999 Shikoku, Japan, pp.355-359.
 94. Nawari, N. (1998). “Fuzzy Logic Concept in the Limit States of Geotechnical Structures”. XI Danube-European Conference, 25-29 May 1998, Porec, Croatia, pp.855-862.
 95. Nawari, N. (1998). “Fuzzy-Safety Techniques in the Reliability of Geotechnical Structures”, *The 3rd. International Conference on Computational Stochastic Mechanics*, Island of Santorini, Greece, June 14-17, 1998.
 96. Nawari, N. “Implementing the Fuzzy Logic and Sets Theory in the Geotechnik: new approaches for safety and risk evaluation”, (in German) *German National Conference for the Geotechnik*, Berlin, Sep.1996, pp.505-516.
 97. Nawari, N. (1997). “Risk Analysis of Landslides using Fuzzy System Theory”, NAFEMS WORLD CONGRESS 97: Design Simulation & Optimization, Reliability & Application of Computational Methods, 9-11 April 1997, pp.912, Stuttgart, Germany.
 98. Nawari, N. (1997). “Fuzzy Logic Methodology in Safety Analysis of Geotechnical Structures”, the 9th International Conference of the Int. Assoc. for Computer Methods and Advances in Geomechanics, 02-07 Nov. 1997, Wuhan, China.
 99. Nawari, N. (1994). “A new Approach for Determining Soil Activity using ENSLIN/NEFF-Apparatus”, 7th Congress of the Int. Assoc. of Engineering Geology, Lisbon, Portugal, 1994.
 100. Nawari, N. (1991). “Black Tropical Clay Soils in the Sudan as a Foundation and a Construction Material for Small Earth Dams”, (in German) 8th German *National Conference in Engineering Geology*, Berlin, May 6-10, 1991.

Abstracts:

- Nawari, N. O. and Chichugova, T. (2016). “Application of Structure and Architecture Synergy Framework (SAS) Using BIM”. Accepted for publication in the Proceedings of the 16th International Conference on Computing in Civil and Building Engineering, Osaka, Japan, 2016.
- Nawari, N. O. and Chichugova, T. (2016). “Bionic Patterns in Architectural Structures”. Accepted for publication in the Proceedings of the 3rd Int. Conference on Structures and Architecture, Guimarães, Portugal, 27-29 July, 2016.

- Almaimani, A. M. and Nawari, N. O. (2016). “BIM-Driven Library for Islamic Architecture”. Accepted for publication in the Proceedings of the 16th International Conference on Computing in Civil and Building Engineering, Osaka, Japan, 2016.
- Nawari, N. O. “Understanding the interplay between Structure and Architecture using Building Information Modeling”, accepted for publication in the Proceeding of the 2nd International Conference Structure and Architecture, ICOSA2013, 24-26 July 2013, Guimares, Portugal.
- Nawari, N. O. , and Gutierrez, Audrey M.“ Natural Structures and Innovative Design”, accepted for publication in the Proceeding of the 2nd International Conference Structure and Architecture, ICOSA2013, 24-26 July, 2013, Guimares, Portugal.
- Nawari, N. O. “BIM Standards: Advancement and Industry Deployment”, publication in the Proceeding of the 14th International Conference on Computing in Civil and Building Engineering, Moscow, June 27-29, 2012.
- Nawari, N. O. “Automated Code Checking in BIM Environment”, publication in the Proceeding of the 14th International Conference on Computing in Civil and Building Engineering, Moscow, June 27-29, 2012.

Editor

- Associate Editor for the “Journal of Construction and Building Material”, Lawarence Press.
- Associate Editor for the “Acta Ingeniería Civil”, Lawarence Press.
- Associate Editor for Smart Cities – Smart Buildings section, MDPI AG, Basel, Switzerland.

Editorial Advisory Boards

- Lawarence Press, Delhi, India.

Reviewer for Scholarly Journals

- Journal of Architectural Engineering (JAE), ASCE. (2-3 per year).
- Automation in Construction: An International Research Journal. Elsevier. (3-4 per year).
- Buildings, MDPI AG, Basel, Switzerland. (1-2 per year).
- Building and Environment: An International Research Journal. Elsevier. (1-2 per year).
- Sustainability, MDPI AG, Basel, Switzerland. (1-2 per year).
- Journal of Building Engineering (JBE), Elsevier. (one per year).
- Advances in Computation Design: An International Journal, Techno Press, Daejeon 34186 Korea. (1-2 per year).
- Journal of Civil Engineering and Architecture (JCEA). (1-3 per year).
- Journal of Information Technology in Construction – ITcon, (1-2)
- Journal of Civil Engineering and Science (JCES). (1-2 per year).

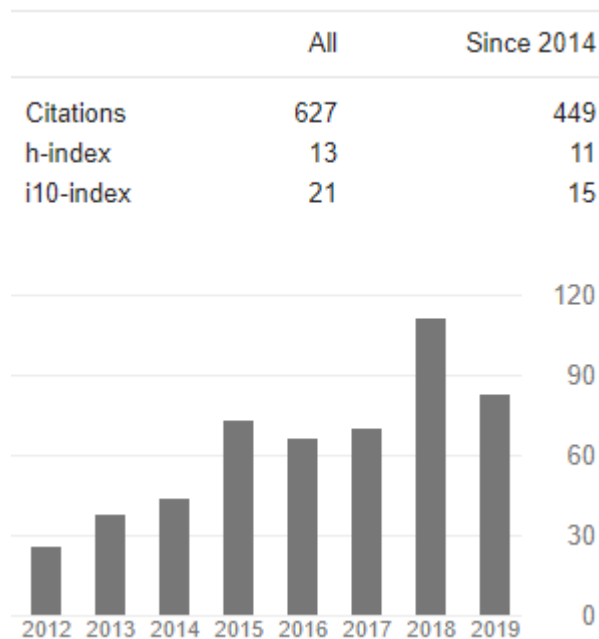
Refereed Proceedings

Member of the scientific committee for the Refereed Conferences:

- 16th International Conference on Computing in Civil and Building Engineering, Osaka, Japan, June 22-25, 2016.
- 2016 Construction Research Congress (CRC2016), Construction Research Council of the ASCE Construction Institute. San Juan, Puerto Rico, USA, May 31 - June 2, 2016.
- 14th International Conference on Construction Applications of Virtual Reality in Construction and conference on Islamic Architecture. 16-18 November 2014, Sharjah, UAE.
- 15th International Conference on Computing in Civil and Building Engineering, Orlando, FL, June 22-25, 2014.

CITATION

My research has been cited in more than 625 national and international publications. The figure below summarizes the distribution of citation using Google Scholar.



LECTURES, SPEECHES, POSTERS PRESENTED AT PROFESSIONAL CONFERENCES

a. International

- “Application of Structure and Architecture Synergy Framework (SAS) Using BIM”. Will be presented at the 16th International Conference on Computing in Civil and Building Engineering, Osaka, Japan, July 4-8, 2016.

- “BIM-Driven Library for Islamic Architecture”. Will be presented at 16th International Conference on Computing in Civil and Building Engineering, Osaka, Japan, 2016.
- “Bionic Patterns in Architectural Structures”. Will be presented at the 3rd Int. Conference on Structures and Architecture, Guimarães, Portugal, 27-29 July 2016.
- “Practical Approaches for Computable Building Codes”. Presented to the 32nd international CIB W78 Conference, October 27th-29th, 2015, Eindhoven, The Netherlands.
- “Advancing BIM Standardization: Floating Structures”. Presented at the Conference on Civil and Building Engineering Informatics (ICCBEI 2015), 78. Tokyo, Japan, 2015.
- “BIM Education: A Framework for Kuwait”. Presented at the 14th International Conference on Construction Applications of Virtual Reality, 16-18 November 2014, Sharjah, UAE, pp.132-139.
- “BIM Standard: Tensile Structures Data Modeling”. Presented at the 15th International Conference on Computing in Civil and Building Engineering, Orlando, FL, June 22-25, 2014.
- “BIM in Structural Design Education”. Presented at the 15th International Conference on Computing in Civil and Building Engineering, Orlando, FL, June 22-25, 2014.
- “BIM in Sustainable Design: Strategies for Renovation and Retrofit.” Presented at the 15th International Conference on Computing in Civil and Building Engineering, Orlando, FL, June 22-25, 2014.
- “Collaborative BIM in Teaching Architectural Structures”, will be presented at the 29th International Conference on Application of IT in the AEC Industry, CIB W7 2012 Conference, Beirut, Lebanon, 17-19 October 2012.
- “BIM Standards: Advancement and Industry Deployment,” presented at the 14th. International Conference on Computing in Civil and Building Engineering, Moscow, June 27-29, 2012.
- “Automated Code Checking in BIM Environment,” presented at the 14th. International Conference on Computing in Civil and Building Engineering, Moscow, June 27-29, 2012.
- “BIM Standardization and Wood Structures,” presented at the 2012 ASCE International Conference on Computing in Civil Engineering, June 17-20, 2012, Clearwater Beach, FL.
- “The Challenge of Computerizing Building Codes in BIM Environment,” presented at the 2012 ASCE International Conference on Computing in Civil Engineering, June 17-20, 2012, Clearwater Beach, FL.
- “Analysis and prediction of building damages due to windstorms,” presented in the “2nd International Conference on Disaster Management and Human Health: Reducing Risk, Improving Outcomes”, May 11-13, 2011, Orlando, FL.
- “Standardization of Structural BIM.” Presented at the 2011 ASCE International Workshop on Computing in Civil Engineering, June 19-22, 2011, Miami, FL.
- “Automating Code Conformance in Structural Domain,” presented at the 2011 ASCE International Workshop on Computing in Civil Engineering, June, Miami, FL.
- Organize and chair a session on “BIM and sustainability” “the 6th International Conference on Engineering and Construction, ASCE, Cairo Egypt, June 2010.

- “Evaluation of Intelligent Codes in Sustainable Design,” presented in the 6th International Conference on Engineering and Construction, ASCE, Cairo, Egypt, June 2010.

b. National

- “SmartCodes and BIM”. Presented at the 2013 Structures Congress in Pittsburgh, PA, May 2-4, 2013.
- BIM beyond Design”, proposed and chaired the session for the Structural Congress 2013. Structural Engineering Institute (SEI), ASCE. May 2-4, 2013, the Westin Convention Center Hotel Pittsburgh, PA.
- “ SmartCodes and BIM” , will be presented at the 2013 Structures Congress in Pittsburgh, PA, May 2-4, 2013.
- “BIM-Model Checking in Building Design”, presented in the 2012 Structures Congress, Chicago, March 29th, 2012.
- “Masonry BIM and the Structural Domain”, presented in the 11th North American Masonry Conference, Minneapolis, Minnesota, June 2011.
- “The Role of National BIM Standard in Structural Design”, presented in the 2010 Structures Congress jointly with the North American Steel Construction Conference in Orlando, Florida, May 12-15, 2010.
- “BIM in AEC Education” presented in the 2010 Structures Congress jointly with the North American Steel Construction Conference in Orlando, Florida, May 12-15, 2010.
- “The Role of National BIM Standard in Structural Design”, presented the 2010 Structures Congress joint with the North American Steel Construction Conference in Orlando, Florida, May 12-15, 2010.

c. Local

- “BIM in Education: A Framework for Kuwait.” Presented at the 2015 DCP Research ShowCase, University of Florida. January 2015
- “Practical approaches for Automated Code checking”. Presented at the 2016 DCP Research ShowCase, University of Florida. January 2016.
- “Building Information Modeling (BIM) In Structural Engineering Practice“. The workshop developed and presented to the Florida Structural Engineering Association (FSEA). This timely workshop was delivered on November 17-18, 2015, at the College of Engineering, University of Florida. It focused on how structural engineers can benefit from this emerging technology by reviewing the BIM concept, discussing how BIM will affect your business, evaluating current BIM technology, exploring critical issues for best business practices in BIM technology, discussing the current maturity level of BIM, reviewing the state of the industry as it relates to adoption rates, discussing the technical implementation process, and exploring legal issues and risks involved with BIM. The workshop provided participants with the necessary knowledge and tools to assist them in understanding and utilizing BIM in their structural engineering practice.

- “Questions on Computerizing Building Codes and Standards”. Presented at the 5th annual College of Design, Construction, and Planning Research Showcase 2012, University of Florida.
- “Evaluation of SmartCodes in Sustainable Design,” Presented at the 4th. Annual College of Design, Construction, and Planning Research Showcase 2010, University of Florida.
- “Automation in Building Design.” Presented at the 3rd annual College of Design, Construction, and Planning Research Showcase 2009, University of Florida.
- Lecture about long-spanning structures, presented to Architectural Grad 1Studio students, University of Florida, School of Architecture, spring 2010.
- Lecture about structural planning and systems, presented to Architectural Studio 6 students, University of Florida, School of Architecture, Fall 2010.
- Lecture about tall building structural systems, presented to Architectural Studio 7 students, University of Florida, School of Architecture, Fall 2010.
- Lecture about structural planning and systems, presented to Architectural Studio 6 students, University of Florida, School of Architecture, Fall 2009.

ACADEMIC SERVICE

University of Florida (UF)

- Member of the University of Florida’s Mission Statement Task Force.
- Member of the University of Florida Faculty Senate 2012-2014.
- UF campus committee for the Fulbright US Student Program.
- The University Minority Mentor Program (UMMP).

College of Design, Construction & Planning

- DCP Diversity Officer
- Coordinator of the newly established DCP Research Seminar Series. This is a weekly seminar presentation by faculty and graduate students at the College of Design, Construction & Planning (DCP). October 2016-present.
- Search committee for the dean of the College of Design, Construction & Planning (DCP), 2015-2016.
- Equity Officer for the College of Design, Construction & Planning, 2013-2018.
- Architecture Technology committee, 2009-present.

MEMBERSHIPS AND ACTIVITIES IN THE PROFESSION

MEMBERSHIPS

a. International

- Fulbright Scholars Alumni, November, 2015-present

- Fellow, American Society of Civil Engineers, ASCE, April 2016 –present.
 - Member of the scientific committee for the International Conference on Computing in Civil and Building Engineering.
- b. National
- American Society of Civil Engineers, ASCE, member 2000 –present.
 - Architectural Engineering Institute, AEI, member 2000 –present.
 - Structural Engineering Institute, SEI, member 2000 –present.
 - ASCE TCCIT (Technical Council on Computing and Information Technology), June 2011-present.
 - Member of the National Building Information Modeling Standard Committee (NBIMS), National Institute of Building Sciences. June 2011 – present.
 - buildingSMART Alliance member, June 2011 – present.
- c. State
- Member of the Florida Section ASCE.
- d. Local
- Member of the Florida Section ASCE, Gainesville Branch.

ACTIVITIES

- a. International
- Member of the scientific committee for the 16th International Conference on Computing in Civil and Building Engineering, Osaka, Japan, June 22-25, 2016.
 - Member of the scientific committee for the International Conference on Architectural Engineering and Civil Engineering in 2016 (AECE2016), Shanghai, China, December 10th -11th, 2016.
 - Participating in the UNESCO WORLD FIELD LABORATORY: Sea Level Rise and the Future of Coastal Settlements, Miami 2016, February 28-March 12th, 2016.
 - Member of the scientific committee for the 14th International Conference on Construction Applications of Virtual Reality in Construction and conference on Islamic Architecture.16-18 November 2014, Sharjah, UAE.
 - Member of the scientific committee for the 15th International Conference on Computing in Civil and Building Engineering, Orlando, FL, June 22-25, 2014.
 - Chaired the session “Education” at the 15th International Conference on Computing in Civil and Building Engineering, Orlando, FL, June 22-25, 2014.

- Applied for the DCP Conference Grant (\$10,000) to support the efforts to organize and host the iNTA2017 conference at DCP. This will be the first international conference in Gainesville to be organized by faculty from the School of Architecture, University of Florida.

b. National

- Member of the National Building Information Modeling Standard Committee (BIMS), National Institute of Building Sciences. June 2011 – present.
- Member of the ASCE TCCIT (Technical Council on Computing and Information Technology) Education Committee. June 2011-present.
- Member of the Joint SEI-CASE Committee on Building Information Modeling (**BIM**), Structural Engineering Institute, ASCE, and Council of American Structural Engineers (CASE). 2008-present.
- Co-Chair the subcommittee BIM Education, SEI-CASE Committee on BIM. 2008-present.

c. Regional

- Member of the Advisory board for the Associate of Science in Building Information Modeling Degree, International Academy of Design & Technology, Tampa • 5104 Eisenhower Blvd. Tampa, FL 33634 • 1-888-247-IADT. 2010-present.

PROFESSIONAL LICENSURE

Board-certified professional engineer in:

- The state of Florida
- The state of Ohio.