

2019-Present Associate Professor of Construction Management
Department of Engineering Technology

2014-2019 Assistant Professor of Construction Management
Department of Applied Engineering, Safety & Technology

2011-2014 Graduate Research Assistant - School of Building Construction

2009-2011 Planning and Scheduling Engineer

2008-2009 Cost Estimator and Civil Engineer

2014 PhD., Building Construction
Thesis Title: Extending Building Information Modeling (BIM) Interoperability to Geo-spatial Domain using Semantic Web Technology

Asadi, S., and Mohammadpour, A. (2017) "Advancing Safety by In-Depth Assessment of Workers Attention, Perception, and Decision Making", *International Journal of Safety Science*, 1(3), 46-60.

, Asadi, S., Ntamo, L. (2016) "A stochastic optimization approach to reduce greenhouse gas emissions from buildings and transportation", *Energy*, 106, 367-377

, Mohammadpour, A., and Asadi, S. (2016) "Integrating building and transportation energy use to design a comprehensive greenhouse gas mitigation strategy", *Applied Energy*, 165, 234-243

., Irizarry, J., and Haymaker, J. (2015) "BIM and GIS integration and interoperability based on semantic web technology", *ASCE Journal of Computing in Civil Engineering*, 04015043.

., Irizarry, J., and Haymaker, J. (2015) "Generating IFC models from heterogeneous data using semantic web", *Emerald Journal of Construction Innovation*, 15(2), 219 - 235

., and Irizarry, J. (2015) "Extending BIM interoperability to pre-construction operations using semantic web services", *Automation in Construction*, 53, 1-12.

., Sivakumar, R., Irizarry, J., and Guhathakurta, S. (2013) "Digital Modeling of Construction Site Terrain using Remote Sensing and Geographic Information Systems" *ASCE Journal of Construction Engineering and Management*, 140(3), 04013067.

Irizarry, J., and Jalaei, F. (2013) "Integrating BIM and GIS to improve the visual monitoring of construction supply chain management", *Automation in Construction*, 31, 241-254.

Irizarry, J., and (2012) "Optimizing Location of Tower Cranes on Construction Sites Through GIS and BIM Integration", *Information Technology in Construction (ITcon)*, Vol. 17, pg. 351-366.

Sebt, M. H., and Delavar, M. R. (2008). "Potential Application of GIS to Layout of Construction Temporary Facilities", *International Journal of Civil Engineering*, 6(4), 235-245.

Hooshmand, H., Mohammadpour, A., Khodabandelu, A., Asgari, S., and Mansoob, V. K. (2021) "Optimal Collaborative Energy Model among Vehicle-to-Home (V2H) and Solar Systems", *CIB International Conference on Smart Built Environment*, Dubai, UAE, December 14-15, 2021.

Mansoob, V. K., Khodabandelu, A., Asgari, S., Mohammadpour, A., and Asadi, S. (2021) "Using Artificial Intelligence to Automate the Quantity Take-off Process", *CIB International Conference on Smart Built Environment*, Dubai, UAE, December 14-15, 2021.

., Safa, M., and Suh, M. (2020) "Use of Artificial Intelligence in a Regulated Design Environment – A Beam Design Example", *International ICCCB E and CIB W78 Joint Conference on Computing in Civil and Building Engineering 2020*, Sao Paulo, Brazil, June 2-4, 2020. 16-25.

Asgari, S., & Mohammadpour, A. (2020). Applying Artificial Intelligence within the AEC Industry: Collecting and Interpreting Data. Construction Research Congress 2020, Tempe, Arizona, March 8–10, 2020, pp. 792-801.

., Asgari, S., Mohammadpour, A., and Asadi, S. (2019) “The Relationship between Sustainability and Resilience of Food-Energy-Water Systems”, International Conference on Sustainable Infrastructure 2019, Los Angeles, California, 634-641.

Picard, B, Asgari, S., and . (2019) “Nelson Mandela Bay Metropolitan Municipality’s Bus Rapid Transit System: Case Study”, International Conference on Sustainable Infrastructure 2019, Los Angeles, California, 618-625.

Architectural Drawing and Design
Construction Project Management
Construction Technology
Descriptive Geometry
Drafting Communication
Engineering Visualization
Green Buildings and Sustainable Systems

Construction Supply Chain Management
Project Management

Management Information Systems
Advanced Construction Methods
Project Management

Green Buildings and Sustainable Systems
Engineering Visualization
Construction Supply Chain Management
Construction Scheduling
Construction Estimating



ASCE Journal of Construction Engineering and Management
ASCE Journal of Computing in Civil Engineering
ASME Journal of Dynamic Systems, Measurement and Control
Elsevier Journal of Advanced Engineering Informatics
Elsevier Journal of Applied Engineering
Elsevier Journal of Automation in Construction
Elsevier Journal of Building and Environment
Elsevier Journal of Energy & Buildings
Elsevier Journal of Energy Research & Social Science
Elsevier Journal of Environmental Management
Emerald Journal of Construction Innovation: Information, Process, Management
International Journal of Digital Earth
International Journal of Management Science and Engineering Management

International Journal of Production Research
Journal of Architectural Engineering and Design Management
Journal of Civil Engineering and Construction Technology (JCECT)
Journal of Computational Methods in Science and Engineering
Journal of Construction Engineering
Journal of Experimental & Theoretical Artificial Intelligence
Journal of Public Health and Epidemiology
Journal of Sustainability
The Open Construction & Building Technology Journal
Construction Research Congress (CRC) (2014 & 2016 & 2020)
International Conference on Construction Applications of Virtual Reality (CONVR) (2015)
International Conference on Sustainable Infrastructure (2017)
International Conference on Computing in Civil Engineering (2017)

Faculty advisor of Construction Management club
Advisement of undergraduate students in Applied Engineering and Technology Management,
Construction Management concentration
Architecture, Construction, and Engineering (ACE) Mentor Program
The Goizueta Foundation STEM Initiative program
Construction Education Foundation of Georgia (CEFGA)

State's Robotic Championship Challenge (FTC) (2015)
Central Pennsylvania Science Olympiad (2016 & 2018)
Science and Engineering Fair (2017)
Made in Millersville (2017 & 2018)

ASCE

Founded in 1852 to represent members of the civil engineering profession worldwide,
ASCE is the oldest national engineering society in the United States

I am a member of the Visualization, Information Modeling, and Simulation, Education, and
Data Sensing and Analysis Committees

CRC

The CRC is the prime international group in the area of construction eng. and
management.

