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## EDUCATION

Doctor of Philosophy  
Purdue University, 2020

Master of Science  
Zagazig University, 2013

Bachelor of Science  
Zagazig University, 2008

## TEACHING EXPERIENCE

2024-2025, Postdoctoral Researcher, University of Wyoming  
2021-2023, Assistant Professor, Zagazig University  
2023-2023, Lecturer, University of Hertfordshire  
2021-2023, Adjunct Professor, Arab Academy for Science and Technology & Maritime Transport  
2020-2021, Postdoctoral Researcher, Iowa State University  
2020-2020, Teaching Assistant, Purdue University  
2008-2015, Teaching Assistant, Zagazig University  
2010-2012, Teaching Assistant, El Shorouk Academy

## PUBLICATIONS

26. Zaman, A.A.U., Abdelaty, A., and Yamany, M.S. (2025). "Applications of UAV Technologies in Assessment of Transportation Infrastructure Systems." *CivilEng*, 6(2), 32.
25. Yamany, M.S., Elshaboury, N., Abdelaty, A., Smadi, O., and Ksaibati, K. (2025). "Pavement Roughness Prediction on Local Roads: Machine Learning Models and Classification Granularity." *International Journal of Pavement Research and Technology*, 1-20.
24. Yamany, M.S., Khan, S., and Ksaibati, K. (2025). "Hybrid System for Prioritizing Pavement Maintenance and Rehabilitation of County Paved Roads." *International Journal of Pavement Research and Technology*, 1-16.
23. Nath, A. D., Abdelaty, A., Dilsiz, A. D., and Yamany, M. S. (2025). Energy Optimization in Residential Buildings: Evaluating PCM-CLT Wall Systems Across US Climate Zones. *Civil Engineering Journal*, 11(05).
22. Zaman, A.A.U., Abdelaty, A., Yamany, M.S., Jacobs, F., and Marzouk, M. (2025). "Integrating 3D Photogrammetry and Game Engine for Construction Safety Training." *Built Environment Project and Asset Management*
21. Yamany, M.S., Abraham, D.M., Ventresca, M., Nantung, T., and Labi, S. (2025). "Probabilistic Optimization of Pavement Preventive Maintenance Using Multi-Objective Genetic Algorithm." *Innovative Infrastructure Solutions*, 10(5), 194.
20. Ahmed, I. F., Alheyf, M., Ali, A., and Yamany, M. S. (2025). "Manholes Detecting and Mapping Using Open-World Object Detection and GIS Integration." *Civil Engineering Journal*, 11(04).
19. Ghosh, R., Yamany, M.S., and Smadi, O. (2025). "Generation of Synthetic Dataset to Improve Deep Learning Models for Pavement Distress Assessment." *Innovative Infrastructure Solutions*, 10(1), 41.
18. Yamany, M.S., Ghozi, M.F., Elnabwy, M.T., and Mohamed, H.A.E. (2025). "Development and Comparative Analysis of Deep Learning Models for Real-time Detection of Construction Resources." *Automation in Construction*, Under Review
17. Katipoğlu, O.M., Kartal, V., Aktürk, G., Kılınç, H.Ç., Elshaboury, N., and Yamany, M.S., and Pande, C.B. (2025). "Beyond Conventional Methods: Revolutionizing Novel Modified Groundwater Drought Indices with Hybrid Artificial Neural Networks and Nature-Inspired Algorithm" *Water Resource Management*, Under Review
16. Yamany, M.S., Abraham, D.M., Nantung, T., and Labi, S., and Abaza, K.A. (2025). "Probabilistic Modeling of Pavement Performance Using Markov Chains: A Critical Review" *International Journal of pavement Engineering*, Under Review.
15. Jayana, N., Abdelaty, A., D'Angelo, D., El-Maraghy, M., Mohamed, M., and Yamany, M.S. (2025). "Causes and Impacts of Design Errors and Omissions in Highway Construction" *Construction Management and Economics*, Under Review
14. Abdelhameed, A., Yamany, M.S., Abdelaty, A., Elbeltagi E., and Mohamed, H.A.E. (2025). "Systematic Review of Construction Project Performance: Bibliometric, Scientometric, and Qualitative Analyses." *Innovative Infrastructure Solutions*, Under Review

13. Al-Jadhai, S., Welah, F., Al- Dakhel, A., Al-Harbi, M., and Yamany, M.S. (2024). "Assessment of Scope Definition for Building Projects in Saudi Arabia" *Journal of Asian Architecture and Building Engineering*, 1-16.
12. Yamany, M.S., Elbaz, M.M., Abdelaty, A., and Elnabwy, M.T. (2024). "Leveraging Convolutional Neural Networks for Efficient Classification of Heavy Construction Equipment." *Asian Journal of Civil Engineering*, 1-13.
11. Yamany, M.S., Kamal, L., Elshaboury, N., and Hosny, H.E. (2024). "Quantitative and Qualitative Review of Material Waste Management in Construction Projects." *Asian Journal of Civil Engineering*, 1-22.
10. Elshaboury, N., Yamany, M.S., Labi, S., and Smadi, O. (2024). "Enhancing Local Road Pavement Condition Prediction Using Bayesian-Optimized Ensemble Machine Learning and Adaptive Synthetic Sampling Technique." *International Journal of Pavement Engineering*, 25(1), 2365957.
9. Ahmed, I.F., Alheyf, M., and Yamany, M.S. (2024). "PlanetiQ Radio Occultation: Preliminary Comparative Analysis of Neutral Profiles vs. COSMIC and NWP Models." *Applied Sciences*, 14(10), 4179.
8. Yamany, M.S., Cawley, L., Reza, I., and Ksaibati, K. (2024). "Network-level Pavement Maintenance and Rehabilitation Planning Using Genetic Algorithm." *Innovative Infrastructure Solutions*, 9(6), 208.
7. Yamany, M.S., Abdelhameed, A., Elbeltagi, E., and Mohamed, H.A.E. (2024). "Critical Success Factors of Infrastructure Construction Projects." *Innovative Infrastructure Solutions*, 9(4), 95.
6. Zihan, Z.U.A., Smadi, O., Tilberg, M., and Yamany, M.S. (2023). "Synthesizing the Performance of Deep Learning in Vision-based Pavement Distress Detection." *Innovative Infrastructure Solutions*, 8(11), 299.
5. Abukhalil, Y., Yamany, M.S., and Smadi, O. (2022). "Detection of Unreported Treatments in Pavement Management System of Iowa DOT Using Machine Learning Classification Algorithm" *ASCE, Journal of Transportation Engineering, Part B: Pavements*, 148(4), 04022058.
4. Yamany, M.S., Abraham, D.M., and Labi, S. (2021). "Comparative Analysis of Markovian Methodologies for Modeling Infrastructure System Performance" *ASCE, Journal of Infrastructure Systems*, 27(2), 04021003.
3. Yamany, M.S., and Abraham, D.M. (2021). "Hybrid Approach to Incorporate Preventive Maintenance Effectiveness into Probabilistic Pavement Performance Models." *ASCE, Journal of Transportation Engineering, Part B: Pavements*, 147(1), 04020077.
2. Yamany, M.S., Saeed, T.U., Volovski, M., and Ahmed, A. (2020). "Characterizing the Performance of Interstate Flexible Pavements using Artificial Neural Networks and Random Parameters Regression." *ASCE, Journal of Infrastructure Systems*, 26(2), 04020010.
1. Yamany, M.S., and Elwakil, E. (2020). "Modeling of Cast-in-place Concrete Tunnel Liners Condition." *Structure and Infrastructure Engineering*, 16(8), 1147-1160.

<b>RESEARCH GRANTS AND AWARDS</b>
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1. 2024, "Evaluating Pavement Preservation Performance in Dry Freeze and Wet Freeze Regions Using LTPP Dataset and a Questionnaire Survey." Grant # 69A3552348308 (IIJA / BIL), Project # CTIPS-034, Funded by the Center for Transformative Infrastructure Preservation and Sustainability (CTIPS), (~\$200K)
2. 2024, "A Pavement Management System for Wyoming County Roads." Grant # 69A3552348308 (IIJA / BIL), Project # CTIPS-013, Funded by the Center for Transformative Infrastructure Preservation and Sustainability (CTIPS), (~\$200K)
3. 2019, "Installation and Maintenance of Raised Pavement Markers at State Transportation Agencies: Synthesis of Current Practices.", Funded by Indiana Department of Transportation (INDOT), Grant # SPR-4318, (~\$100K)