

Abdulahdi A. Altherwi



Assistant Professor

Education

- PhD, Systems Engineering, Oakland University, USA, (Spring 2022).
- Master of Science, Industrial Engineering, Lawrence Technological University, USA, (Spring 2017).
- Bachelor of Science, Industrial Engineering, Jazan University, KSA, (Fall 2012).

Academic Experience

- Jazan University, College of Engineering and computer science, Department of Industrial Engineering, KSA, *Assistant Professor*, (2022 - Now), Full Time.
- Jazan University, College of Engineering, Department of Industrial Engineering, KSA, *Lecturer*, (2017 - 2022), Full Time.
- Jazan University, College of Engineering, Department of Industrial Engineering, KSA, *Teaching Assistant*, (2013 - 2017).

Certifications or Professional Registrations

- Certificate of Completion of Responsible Conduct of Research, CITI program.
- Certificate of Completion of Complete Guide to Modern Mathematical Optimization in GAMS program.
- Certificate of Completion of Scientific Research, Technical and Vocational Training Corporation.
- Certificate of Completion of Data Analytics Using SPSS, Technical and Vocational Training Corporation.
- Certificate of Completion of Supply Chain Planning Course, Rutgers University.
- Certificate of Completion of Supply Chain Sourcing Course, Rutgers University.
- Certificate of Completion of Supply Chain Logistics Course, Rutgers University.
- Certificate of Completion of Supply Chain Operations Course, Rutgers University

Current Membership in Professional Organizations

- Member, Conference Committees at Industrial Engineering and Operations Management (IEOM).
- Member, Institute of Industrial and Systems Engineers (IISE).
- Member, Information Computation Communication and Control Organization (ICCC).

Honors and Awards

- Received “Best Track Paper Award” at IEOM Detroit Conference, USA. (2020)
- Received “Best Track Paper Award” at IEOM Zimbabwe Conference, Africa. (2020)
- Received “Best Doctoral Dissertation Award” at IEOM Istanbul Conference, Turkey. (2022)

Service Activities

- Conference Reviewer, Industrial Engineering and Operations Management Conference, *SCOPUS* (IEOM).
- Journal Reviewer, Cleaner Engineering and Technology, *ELSEVIER*.
- Chair, Departmental Student Activities Committee.
- Member, Departmental Scholarship and Higher Studies Committee.
- Member, Departmental Schedules and Registration Committee.

Research Accounts

- **Google Scholar:** [Abdulhadi A. Altherwi - Google Scholar](#)
- **Research Gate:**
- **Scopus:** <https://www.scopus.com/authid/detail.uri?authorId=57194161303>

Recent Publications and Presentations

- **Altherwi, A.**, Ahmad, M. T., Alam, M. M., Mirza, H., Sultana, N., Pasha, A. A., ... & Azim, R. (2024). A hybrid optimization approach for securing cloud-based e-health systems. *Multimedia Tools and Applications*, 1-36
- Aldandani, M., **Altherwi, A. A.**, & Abushaega, M. M. (2024). Propagation patterns of dromion and other solitons in nonlinear Phi-Four (ϕ 4) equation. *AIMS Mathematics*, 9(7), 19786-19811.
- **Altherwi, A.** (2022). *A META-HEURISTIC ALGORITHM BASED ON MODIFIED GLOBAL FIREFLY OPTIMIZATION: IN SUPPLY CHAIN NETWORKS WITH DEMAND UNCERTAINTY* (Doctoral dissertation).
- **Altherwi, A.**, Alwerfalli, D., & Edwards, W. (2022). "Optimal Supply Chain Networks Under Failure Risks Using Meta-Heuristic Algorithms". *In Proceedings of the International Conference on Industrial Engineering and Operations Management Istanbul, Turkey, March 7-10, 2022*.
- **Altherwi, A.**, & Alwerfalli, D. (2020). "A Modified Firefly Algorithm for Global Optimization of Collaborative Supply Chain Networks Under Stochastic Demand". *In Proceedings of the 2nd African International Conference on Industrial Engineering and Operations Management* (pp.1726 -1745).
- **Altherwi, A.**, & Nezamoddini, N. (2019), "Game Theory Modeling of Collaborative Supply Chains," *In Proceedings of Industrial & Systems Engineering Research Conference, Orlando, FL, United States*.
- Abbas, M., Alotaibi, H., Muhammad, T., Gómez-Aguilar, J. F., Faqihi, A. A., Jari, H. A., & **Altherwi, A. A.** (2024). Significance of Marangoni convection and heat generation on Darcy Forchheimer 3D flow of Maxwell (AA 7072+ AA 7075-CH 3 OH) hybrid nanofluid over a rotating disk. *Journal of Thermal Analysis and Calorimetry*, 1-15.
- **Altherwi, A.**, & Hijry, H. (2016). "Implementation of a Statistical Process Control System for a selected industrial plant". *In Proceedings of the International Conference on Industrial Engineering and Operations Management* (pp. 23-25).

- Abbas, M., Faqihi, A. A., Khan, I., Salah, F., Abushaega, M. M., **Altherwi, A. A.**, & Shafique, M. (2025). Three-dimensional radiative flow of tetra-hybrid nanofluid via oil rig solar panel sheet with catalysis reaction using Yamad-Ota and Hamilton-Crosser models. *Journal of Radiation Research and Applied Sciences*, 18(1), 101279.
- Galal, A. M., Abbas, M., Ali, R., Saydaxmetova, S., Ibrahim, T. K., Faiz, Z., ... & **Altherwi, A. A.** (2025). Thermal and solutal convective flow of propylene glycol-based tetra-hybrid nanofluid with elastic deformation and Stefan blowing impacts: application to thermal energy. *Journal of Thermal Analysis and Calorimetry*, 1-15.
- Obaid, H. B., Trafalis, T. B., Abushaega, M. M., **Altherwi, A.**, & Hamzi, A. (2024). Optimizing Dynamic Evacuation Using Mixed-Integer Linear Programming. *Mathematics*, 13(1), 12.
- Hamali, W., Zogan, H., & **Altherwi, A. A.** (2024). Dark and bright hump solitons in the realm of the quintic Benney-Lin equation governing a liquid film. *AIMS Mathematics*, 9(10), 29167-29196.