

Curriculum Vitae

Mehmet Bayram Yildirim, PhD

Professor

Department of Industrial, Systems and Manufacturing Engineering
Wichita State University

Education

- Ph. D. in Industrial and Systems Engineering, University of Florida, Florida, 2001
- M. S. in Industrial Engineering, Bilkent University, Ankara, Turkey, 1996
- B. S. in Industrial Engineering, Bogazici University, Istanbul, Turkey, 1994

Professional Experience

- Professor, Department of Industrial, Systems and Manufacturing Engineering, Wichita State University, August 2014-present
- Wichita State University Faculty Ombudsperson, May 2017-May 2025
- ABET Industrial Engineering and Engineering Management program evaluator, 2018 to present
- Board member, Wichita State Innovation Alliance, September 2018-present
- Director for Systems, Energy and Analytics Laboratory, 2018-present
- Director, Wichita State USDA Energy Assessment Center, 2022-present
- Assistant Director, Oklahoma State-Wichita State Industrial Assessment Center, 2006-present

Honors, Awards, and Recognition

- Wichita State University 2025-2026 Scholar's Walk honoree
- College of Engineering 2025 Duane and Velma Wallace Excellence in Research Award
- Wichita State University 2023 Faculty Risk Taker Award
- Wichita State University College of Engineering 2023 Faculty Lifetime Service Award
- Wichita State University 2019 Excellence Award for Community Research
- Wichita State University 2018 Excellence in Research Award
- Institute of Industrial and Systems Engineers 2018 Region V Outstanding Faculty Advisor of the Year Award
- College of Engineering 2016 Dwane and Velma Wallace Service Award
- Wichita State University 2014 Shocker Leadership Awards Advisor of the Year
- Wichita State University 2013 President's Award for Distinguished Service
- College of Engineering 2013 Duane and Velma Wallace Excellence in Research Award
- Senior Faculty Fellow at National Institute of Aviation Research, 2002 – present

Professional Service

- IISE Engineering Economy Division, Communication Director, president-elect/conference chair, president, and past president), 2017-2020; President Elect 2023-2024; President 2024-2025
- Secretary, IISE Logistics and Supply Chain Division, 2014-2016

Editorships

- The Engineering Economist, Associate Editor, 2025-present
- Journal of Business Analytics, Editorial Board Member, 2018-present
- Journal of Business Research, Editorial Board Member, 2022-present
- Organized 2024 Wichita Healthcare summit, 2023 WSU Healthcare Summit, 2023 WSU Sustainability Summit, and 2020-2024 Earthday Poster Sessions
- 2019, 2020, 2021, 2022, 2023 and 2024 Industry, Engineering and Management Systems Conference Sustainability Track Chair
- IISE 2018, 2019, and 2024 Annual Research Conference Engineering Economy Track Chair
- Advisory Board Member, Pamukkale University Journal of Engineering Sciences, 2011-present

Research

Areas of Interest

Sustainable Engineering; Data Analytics; Artificial Intelligence; Energy Efficient Manufacturing; Generation Expansion, Transmission Planning; Smart Grids; Optimization and Analytics Applications in Scheduling and Healthcare Management; Logistics and Supply Chain Management

Publications:

Dr. Yildirim's research has resulted in 96 peer-reviewed publications, over 3,700 citations, an h-index of 25, and an i10-index of 45.

Most Recent Journal Articles:

- 1.Sener, A.*, Avcilar, M. Y., Barut, M., & Yildirim, M. B. (2025). The role of information usage between information sharing and performance. *Journal of Information & Knowledge Management*, 24(01), 2450096.
- 2.Topuz, K.*, Urban, T. L., Russell, R. A., & Yildirim, M. B. (2024). Decision support system for appointment scheduling and overbooking under patient no-show behavior. *Annals of Operations Research*, 342(1), 845-873.
- 3.Topuz, K.*, Urban, T. L., & Yildirim, M. B. (2024). A Markovian score model for evaluating provider performance for continuity of care—An explainable analytics approach. *European Journal of Operational Research*, 317(2), 341-351.
- 4.Xian, C.*, Vali, H.*, Tian, R., Xu, J. D., & Yildirim, M. B. (2024). The differential effect of three types of conflicting online reviews on perceived informativeness. *Journal of Electronic Business & Digital Economics*, 3(1), 20-35. DOI 10.1108/JEBDE-08-2023-0016.
- 5.Peng, X.*, Vali, H.*, Xu, J., & Yildirim, M. B. (2024). Effect of consistency of the review set on causal attribution: The moderating roles of repeating purchase cues and product knowledge. *Internet Research*. 10.1108/INTR-06-2023-0469
- 6.Sener, A.*, Barut, M. and Yildirim, M.B., 2023, "The Role Of Information Usage Between Information Sharing And Performance," *The Journal of Management and Engineering Integration*, Vol 16, No 1, Summer 2023
- 7.Vali, H.*, Xu, J. D., & Yildirim, M. B. (2021). Comparative reviews vs. regular consumer reviews: Effects of presentation format and review valence. *Journal of Global Information Management (JGIM)*, 29(6), 1-29.
- 8.Çınar, S.*, & Yıldırım, M. B. (2021). Using Lagrangian Relaxation Method for Asset Management Problems. *Erciyes University Journal of Institute of Science and Technology*, 37(2), 221-231.

9. Sener, A.*, Barut, M., Dag, A., & Yildirim, M. B. (2021). Impact of commitment, information sharing, and information usage on supplier performance: a Bayesian belief network approach. *Annals of Operations Research*, 303(1), 125-158.
10. Cinar, S.*, Rubaiee, S.*, & Yildirim, M. B. (2021). Asset management strategies for wind turbines: keeping or retrofitting existing wind turbines?. *International Journal of Operational Research*, 40(3), 318-341.
11. Sener, A.*, Barut, M., Avcilar, M., Oztekin, A. and Yildirim, M.B., 2019, "The Role of Information Usage in a Retail Supply Chain: A Causal Data Mining and Analytical Modeling Approach," *Journal of Business Research*, 99, 87-104.
12. Al Rubaiee, S.* and Yildirim, M. B., 2019, "An Energy-Aware Multiobjective Ant Colony Algorithm to Minimize Total Completion Time and Energy Cost on a Preemptive Single-Machine," *Computers & Industrial Engineering*, Vol. 127, pp. 240-252, <https://doi.org/10.1016/j.cie.2018.12.020>
13. Al Rubaiee, S.*, Cinar, S.* and Yildirim, M. B., 2018, "An Energy-Aware Multiobjective Optimization Framework to Minimize Total Tardiness and Energy Cost on a Non-Preemptive Single-Machine," *IEEE Transactions on Engineering Management*, 66(4), pp.699-714..
14. Topuz, K.*, Sengul, F., Dag, A., Almhemi, A., and Yildirim, M. B., 2017, "Predicting Graft Survival among Kidney Transplant Recipients: A Bayesian Decision Support Model," *Decision Support Systems*, Vol 106, pp. 97-109.
15. Topuz, K.*, Uner, H. Oztekin, A. and Yildirim, M. B., 2017, "Predicting Pediatrics Clinic No-Shows: A Decision Analytic Framework Using Elastic Net and Bayesian Belief Network," *Annals of Operations Research*, DOI 10.1007/s10479-017-2489-0

Funded Research

Active in pursuing research funds as principal investigator (PI) and co-principal investigator (Co-PI) in 48 funded proposals for a total of \$14,083,361 with \$7,587,461 as WSU share and \$2,549,445 as his share.

Funded Research as Principal Investigator

1. FMRG: Eco: Electro-Manufacturing of Ethylene and Nitrogenous Chemicals by Synergizing the Capture and Conversion of CO₂ and Waste Nitrogen, National Science Foundation, Co-PI, 9/2025-5/2029
2. U.S. Department of Energy Kansas Plains Industry Assessment Center for Building Automation Systems (with WSU TECH), Department of Energy, PI, April 2024-March 2027
3. Wichita State University USDA Technical Assistance Grant, USDA, PI, 10/2024-9/2026
4. Wichita State University USDA Rural Energy Assessment Center, USDA REAP, PI, 6/2023-12/2025
5. Planning the future of Sunflower Electric Grid, Sunflower Energy, PI, 4/2022-5/2023
6. WSU/ Oklahoma State University Industrial Assessment Center, Department of Energy, PI, 9/2021-8/2026