Bahareh Kargar

Department of Mechanical and Industrial Engineering
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EDUCATION

Ph.D., Industrial Engineering **2021-Present**
Department of Mechanical and Industrial Engineering, New Jersey Institute of Technology, Newark, NJ

M.S., Industrial Engineering **(Graduated with honor) 2015-2017**
School of Industrial Engineering, Iran University of Science & Technology, Tehran, Iran
Total GPA: 18.23/20.00, among top 10%.
Dissertation Title: Thesis Title: Multi-period organ allocation model under uncertainty

B.S. Student, Industrial Engineering **2007-2011**
School of Industrial Engineering, Payam Noor University, Shiraz, Iran

RESEARCH INTERESTS

- Operations Research
- Healthcare Management
- Optimization for Machine Learning
- Decision Making Under Uncertainty
- Supply Chain Network Design

PUBLICATIONS

JOURNALS PUBLICATIONS

Lotfi, R., **Kargar, B.**, Gharehbaghi, A., Afshar, M., Rajabi, M. S., & Mardani, N. (2022). A data-driven robust optimization for multi-objective renewable energy location by considering risk. Environment, Development and Sustainability, 1-22.

Lotfi, R., **Kargar, B.**, Gharehbaghi, A., Hazrati, H., Nazari, S., & Amra, M. (2022). Resource-constrained time–cost-quality-energy-environment tradeoff problem by considering blockchain technology, risk and robustness: a case study of healthcare project. Environmental Science and Pollution Research, 1-17.

Lotfi, R., **Kargar, B.**, Rajabzadeh, M., Hesabi, F., & Özceylan, E. (2022). Hybrid fuzzy and data-driven robust optimization for resilience and sustainable health care supply chain with vendor-managed inventory approach. International Journal of Fuzzy Systems, 24(2), 1216-1231.

Lotfi, R., **Kargar, B.**, Gharehbaghi, A., & Weber, G. W. (2022). Viable medical waste chain network design by considering risk and robustness. Environmental science and pollution research, 29(53), 79702-79717.

Pourhatami, A., Kaviyani-Charati, M., **Kargar, B.**, Baziyad, H., Kargar, M., & Olmeda-Gómez, C. (2021). Mapping the intellectual structure of the coronavirus field (2000–2020): a co-word analysis. Scientometrics, 126(8), 6625-6657.

Lotfi, R., **Kargar, B.**, Hoseini, S. H., Nazari, S., Safavi, S., & Weber, G. W. (2021). Resilience and sustainable supply chain network design by considering renewable energy. International journal of energy research, 45(12), 17749-17766.

Kargar, B., Pishvaee, M. S., Jahani, H., & Sheu, J. B. (2020). Organ transportation and allocation problem under medical uncertainty: A real case study of liver transplantation. Transportation Research Part E: Logistics and Transportation Review, 134, 101841.

BOOK CHAPTER

Kaviyani-Charati, M., **Kargar, B.**, "10 Demand Sensitivity." Influencing Customer Demand: An Operations Management Approach (2021): 183. CRC Press.

Kargar, B., Gheshlaghi Gazerani V., and Pishvaee, M. S., "Predicting Liver Transplantation Outcomes Through Data Analytics." In The 7th International Conference on Contemporary Issues in Data Science, (2019):142-160. Springer, Cham.

JOURNALS PUBLICATIONS (UNDER REVIEW)

Sadati-Keneti Y., Sebt M.V., Tavakkoli-Moghaddam R., Rahbar M., and **Kargar B.**, "A bi-objective green supply chain with perishable products: A novel heuristic-based meta-heuristic algorithm." Expert Systems With Applications, (2021). Under review.

HONARS AND AWARDS

Best Paper Award in of 14th International Industrial Engineering Conference 2018
to be held in Iran University of Science & Technology, Tehran, Iran

Awarded the membership of "Talented Student Society" 2017
Iran University of Science & Technology for academic excellence (awarded only to top 5%students)

Ranked 1st in GPA among the graduate Industrial Engineering students 2016
in Iran University of Science & Technology, Tehran, Iran.

COMPUTER SKILLS

General software: Microsoft Office, EViews, MSP

Optimization Software: CPLEX, GAMS, LINGO

Programming: Python, MATLAB, C#, R

Statistical Software: SPSS, SAS, Minitab

GRADUATE COURSES

Optimization: Fundamental Mathematical Programming, Advanced Topis in Operations Research, Supply Chain Engineering, Multiple Criteria Decision-Making, Applied Probability, Optimization Techniques for Data Engineering

Stochastic Processes: Stochastic Programming, Theory of Queuing Systems

Data Analytics: Data Mining, Machine Learning