

SOROUSH SAFARZADEH



Assistant Professor | Department of Engineering, Quchan University of Technology, Quchan, Iran | ORCID: 0000-0003-2477-525X | Scopus ID: 57195638309 | Research ID: D-4085-2018 | Tel: +985147017421 | s.safarzadeh@qiet.ac.ir | <https://profile.qiet.ac.ir/safarzadeh/>

(Academic Profiles)



EDUCATION

Isfahan University of Technology, Isfahan, Iran

Ph.D. in Industrial Engineering (Rank: 3, Grade: 18.52/20)

Sep 2015-Jul
2019

Thesis: "A game theoretic approach for pricing and energy consumption analysis in the supply chain of energy-efficient products, considering rebound effects and governmental policies"

Supervisor: Dr. Morteza Rasti-Barzoki, Grade: A (mailto:rasti@cc.iut.ac.ir)

Advisor: Dr. Seyed Reza Hejazi, (mailto:rehejazi@cc.iut.ac.ir)

Sharif University of Technology, Tehran, Iran

M.Sc. in Industrial Engineering (Grade: 17.13/20)

Sep 2013- Sep
2015

Thesis: "Minimization lateness of construction workshop activities in a piping process"

Supervisor: Dr. Shahram Shadrokh, Grade: A (mailto:shadrokh@sharif.edu)

Ferdowsi University of Mashhad, Mashhad, Iran

B.Sc. in Industrial Engineering (Rank: 3, Grade: 17.78/20)

Aug 2009-Jul
2013

Thesis: "Solving an extended multi-row facility layout problem with fuzzy clearances using GA"

Supervisor: Dr. Hamidreza Koosha, Grade: A (mailto:koosha@um.ac.ir)

HONOR & AWARDS

Full-Scholarship for Studying on M.Sc. thesis

Feb 2015

National Iranian Oil Refining & Distribution Company (NIORDC)

Ranked 32th among 8,000+ graduate applicants in the National Entrance Exam for Industrial Engineering Schools

Sep 2013

Ministry of Science, Research and Technology

TEACHING EXPERIENCE

Ferdowsi University of Mashhad

Lecturer: "Time and motion study" and "Facility planning"

Spring 2020-Now

Quchan University of Technology

Lecturer: "Marketing principals", "Ergonomics", "Financial management", "Engineering statistics", "Decision analysis", "Facility planning", "Project management", and "Simulation principals"

Spring 2020-Now

Isfahan University of Technology

Lecturer: "Computer application in industrial engineering"

Spring 2018

GAMS and MATLAB software

RELATED EXPERIENCE

Journal Reviewer (Top ones)

Elsevier, Journal of Cleaner Production (ISSN: 0959-6526)

Apr 2019-Now

Elsevier, Energy Conversion and Management (ISSN: 0196-8904)

Feb 2021-Now

Elsevier, International Journal of Production Economics (ISSN: 0925-5273 & e-ISSN: 1873-7579)

Apr 2024-Now

Elsevier, European Journal of Operational Research (ISSN: 0377-2217 & e-ISSN: 1872-6860)

Aug 2024-Now

Elsevier, Journal of Cleaner Production (ISSN: 0959-6526)	May 2019-Now
Elsevier, Computers & Industrial Engineering (ISSN: 0360-8352)	Jun 2019-Now
Elsevier, Omega (ISSN: 0305-0483)	Aug 2022-Now
Elsevier, Transportation Research Part D (ISSN: 1361-9209 & e-ISSN: 1879-2340)	Nov 2024-Now
Elsevier, Transportation Research Part E (ISSN: 1366-5545 & e-ISSN: 1878-5794)	May 2024-Now
Elsevier, Journal of Environmental Management (ISSN: 1095-8630)	Apr 2023-Now
Elsevier, Conversion and Management (ISSN: 0196-8904)	Feb 2021-Now
Elsevier, Ecological Economics (ISSN: 0921-8009)	Feb 2023-Now
Elsevier, Energy (ISSN: 0360-5442 & e-ISSN: 1873-6785)	May 2023-Now
Elsevier, Energy Economics (ISSN: 0140-9883 & e-ISSN: 1873-6181)	Jun 2024-Now
Elsevier, Environmental Impact Assessment Review (ISSN: 0195-9255)	Sep 2022-Now
Elsevier, Sustainable Energy Technologies and Assessments (ISSN: 2213-1388)	Feb 2022-Now
Elsevier, Waste Management (ISSN: 0956-053X & e-ISSN: 1879-2456)	Feb 2024-Now
Elsevier, Expert Systems with Applications (ISSN: 0957-4174 & e-ISSN: 1873-6793)	Feb 2024-Now
Elsevier, Applied Soft Computing (ISSN: 1568-4946 & e-ISSN: 1872-9681)	Jan 2025-Now
Elsevier, Cleaner Logistics and Supply Chain (e-ISSN: 2772-3909)	Jan 2025-Now
Elsevier, Energy Strategy Reviews (e-ISSN: 2211-4688)	Jun 2023-Now
Elsevier, Technological Forecasting & Social Change (ISSN: 0040-1625 & e-ISSN: 1873-5509)	Jan 2024-Now
Elsevier, Energy and Sustainable Development (ISSN: 0973-0826)	Feb 2022-Now
Elsevier, Technology in Society (ISSN: 0160-791X & e-ISSN: 1879-3274)	Oct 2023-Now
Elsevier, Transport Policy (ISSN: 0967-070X & e-ISSN: 1879-310X)	Feb 2024-Now
Elsevier, Utilities Policy (ISSN: 0957-1787 & e-ISSN: 1878-4356)	Dec 2024-Now
Elsevier, Resources Policy (ISSN: 0301-4207 & e-ISSN: 1873-7641)	Feb 2025-Now
Elsevier, Socio-Economic Planning Sciences (ISSN: 0038-0121 & e-ISSN: 1873-6041)	Oct 2023-Now
Elsevier, Energy and Buildings (ISSN: 0378-7788 & e-ISSN: 1872-6178)	Jul 2023-Now
Elsevier, Heliyon (e-ISSN: 2405-8440)	Jun 2023-Now
Elsevier, International Journal of Industrial Ergonomics (ISSN: 0169-8141)	Feb 2022-Now
Elsevier, Simulation Modelling Practice and Theory (ISSN: 1569-190X)	Oct 2023-Now
Elsevier, Engineering Applications of Artificial Intelligence (ISSN: 0952-1976)	Sep 2023-Now
Elsevier, Sustainable Futures (e-ISSN: 2666-1888)	Oct 2024-Now
Elsevier, Ocean and Coastal Management (ISSN: 0964-5691)	Jul 2023-Now
IEEE, IEEE Transactions on Engineering Management (ISSN: 0018-9391 & e-ISSN: 15580040)	Jan 2025-Now
IEEE, IEEE Transactions on Automation Science and Engineering (ISSN: 1545-5955)	May 2023-Now
John Wiley and Sons, Managerial and Decision Economics (ISSN: 0143-6570 & e-ISSN: 1099-1468)	Jun 2024-Now
John Wiley and Sons, Transactions on Emerging Telecommunications Technologies (ISSN: 2161-3915)	Jan 2025-Now
SAGE publications, Concurrent Engineering: Research and Applications (ISSN: 1063-293X & e-ISSN: 1531-2003)	Jun 2019-Now
Springer, Environment, Development and Sustainability (ISSN: 1387-585X & e-ISSN: 1573-2975)	Oct 2023-Now
Springer, Soft Computing (ISSN: 1432-7643 & e-ISSN: 1433-7479)	Dec 2023-Now
Springer, Clean Technologies and Environmental Policy (ISSN: 1618-954X & e-ISSN: 1618-9558)	Dec 2024-Now
Springer, Environmental Science and Technology (ISSN: 1735-1472 & e-ISSN: 1735-2630)	Jun 2024-Now
Springer, Energy Efficiency (ISSN: 1570646X & e-ISSN: 1570-6478)	Oct 2020-Now
Springer, Journal of Ambient Intelligence and Humanized Computing (ISSN: 1868-5137 & e-ISSN: 1868-5145)	Sep 2019-Now
Taylor & Francis, International Journal of Production Research (ISSN: 0020-7543 & e-ISSN: 1366-588X)	Feb 2025-Now
Taylor & Francis, Economics of Innovation and New Technology (ISSN: 1043-8599 & e-ISSN: 1476-8364)	Jan 2025-Now
Taylor & Francis, Energy Sources, Part B: Economics, Planning, and Policy (ISSN: 1556-7249 & e-ISSN: 1556-7257)	Mar 2024-Now
Taylor & Francis, Technology Analysis and Strategic Management (ISSN: 0953-7325 & e-ISSN: 1465-3990)	Sep 2024-Now
Taylor & Francis, International Journal of Ambient Energy (ISSN: 0143-0750 & e-ISSN: 2162-8246)	Nov 2021-Now
MDPI AG, Mathematics (ISSN: 2227-7390)	Sep 2021-Now
MDPI AG, Sustainability (ISSN: 2071-1050)	Oct 2021-Now
AIMS press, Mathematical Biosciences and Engineering (ISSN: 1551-0018)	Jan 2021-Now
World Scientific, International Journal of Information Technology & Decision Making (ISSN: 0219-6220 & e-ISSN: 1793-6845)	Apr 2021-Now
Sharif University of Technology, Sharif Journal of Industrial Engineering & Management (ISSN: 2676-4741 & e-ISSN: 2676-475X)	Mar 2023-Now
Sharif University of Technology, Scientia Iranica (ISSN: 1026-3098)	Jan 2019-Now
Conference Reviewer	
8th & 9th International Conference on Industrial and Systems Engineering (ICISE 2022 & 2023), Industrial Engineering Department, Ferdowsi University of Mashhad, Iran, Aug.	Aug 2022
2021 International Conference on Polymeric, Metallic and Composite Materials (PMCM 2021), Wuhan, China, 29-30 May, 2021.	May 2021
7th International Conference on Industrial and Systems Engineering (ICISE 2021), Industrial Engineering Department, Ferdowsi University of Mashhad, Iran, 8-9 Sep, 2021.	Sep 2021
The 17th International Conference on Industrial Engineering (IIIEC), Industrial Engineering Department, Ferdowsi University of Mashhad, Iran, 3-4 Feb, 2021.	Feb 2021
The 7th International Conference on Fuzzy Systems and Data Mining (FSDM 2021), Seoul, South Korea, 26-29 Oct, 2021	Oct 2021
Technical Consultant	
Compilation of the roadmap of research-oriented projects of Khorasan Regional Electric Company with the help of problem solving, Khorasan Regional Electric Company (in progress)	Feb 2024
Formulation of the theoretical framework of the problem-finding strategy and definition of the research problem of organizational units, Khorasan Regional Electric Company	Feb 2023

Construction workshop activities in a piping process, Phases 13 & 14 of South Pars Development Projects
Neyrperse Company, MAPNA group

Aug 2015

PUBLICATIONS AND PAPERS

- Esmaeeli, Z., Mollaverdi, N., & [Safarzadeh, S.](#) (2024). A game theoretic approach for green supply chain management in a big data environment considering cost-sharing models. *Expert Systems with Applications*, 257, 124989. <https://doi.org/10.1016/j.eswa.2024.124989>. **Published**
- [Safarzadeh, S.](#), Rasti-Barzoki, M., Altmann, J., & Moon, I. (2024). A game theoretic approach for tradable white certificates regarding energy rebound and government intervention. *Environment, Development and Sustainability*. <https://doi.org/10.1007/s10668-024-05019-0>. **Published**
- Asgarian, F., Hejazi, S. R., Khosroshahi, H., & [Safarzadeh, S.](#) (2024). Vehicle pricing considering EVs promotion and public transportation investment under governmental policies on sustainable transportation development: The case of Norway. *Transport Policy*, 153, 204-221. <https://doi.org/10.1016/j.tranpol.2024.05.017>. **Published**
- Jafari, H., & [Safarzadeh, S.](#) (2024). Effects of governmental supportive policies on waste management for two substitutable products made of virgin and waste materials: A game-theoretic approach. *Waste Management & Research*, 0(0), 0734242X241231399. <https://doi.org/10.1177/0734242x241231399>. **Published**
- Eghbali, M.-A., Rasti-Barzoki, M., & [Safarzadeh, S.](#) (2024). An Evolutionary Game-Theoretic Approach for Analysis of Green Innovation and Environmental Performance of Tech Firms under Stakeholders' Policies Based on System Dynamics. *Clean Technologies and Environmental Policy*, 26(3). <https://doi.org/10.1007/s10098-024-02782-6> **Published**
- [Safarzadeh, S.](#), & Jafari, H. (2024). Investigating Energy-Efficient Consumption and Intervention Mechanisms for the Manufacturing Sector: A Monopolistic Competition. *Arabian Journal for Science and Engineering*. <https://doi.org/10.1007/s13369-024-08774-4>. **Published**
- [Safarzadeh, S.](#) (2023). A game theoretic approach for pricing and advertising of an integrated product family in a duopoly. *Journal of Combinatorial Optimization*. <https://doi.org/10.1007/s10878-023-01041-6>. **Published**
- Zamiri-Noghreh, E., [Safarzadeh, S.](#), & Ranjbar, M. (2023). Product safety assessment in a dairy dual-channel supply chain using game theory. *Annals of Operations Research*. <https://doi.org/10.1007/s10479-023-05283-9> **Published**
- Jafari, H., & [Safarzadeh, S.](#) (2023). Producing two substitutable products under a supply chain including two manufacturers and one retailer: A game-theoretic approach. *Journal of Industrial and Management Optimization*, 19(5), 3650–3670. <https://doi.org/10.3934/jimo.2022102> **Published**
- [Safarzadeh, S.](#), Hafezalkotob, A., & Jafari, H. (2022). Energy supply chain empowerment through tradable green and white certificates: A pathway to sustainable energy generation. *Applied Energy*, 323, 119601. <https://doi.org/https://doi.org/10.1016/j.apenergy.2022.119601>. **Published**
- Eghbali, M.-A., Rasti-Barzoki, M., & [Safarzadeh, S.](#) (2022). A hybrid evolutionary game-theoretic and system dynamics approach for analysis of implementation strategies of green technological innovation under government intervention. *Technology in Society*, 70, 102039. <https://doi.org/10.1016/j.techsoc.2022.102039> **Published**
- Jafari, H., [Safarzadeh, S.](#), & Azad-Farsani, E. (2022). Effects of governmental policies on energy-efficiency improvement of hydrogen fuel cell cars: A game-theoretic approach. *Energy*, 124394. doi: <https://doi.org/10.1016/j.energy.2022.124394> **Published**
- Amiri-Pebdani, S., Alinaghian, M., & [Safarzadeh, S.](#) (2022). Time-Of-Use pricing in an energy sustainable supply chain with government interventions: A game theory approach. *Energy*, 124380. doi: <https://doi.org/10.1016/j.energy.2022.124380> **Published**
- [Safarzadeh, S.](#), Rasti-Barzoki, M., & Hejazi, S. R. (2020). A review of optimal energy policy instruments on industrial energy efficiency programs, rebound effects, and government policies. *Energy Policy*, 139, 111342. doi: <https://doi.org/10.1016/j.enpol.2020.111342> **Published**
- [Safarzadeh, S.](#), & Rasti-Barzoki, M. (2020). A duopolistic game for designing a comprehensive energy-efficiency scheme regarding consumer features: Which energy policy is the best? *Journal of Cleaner Production*, 255, 120195. doi: <https://doi.org/10.1016/j.jclepro.2020.120195> **Published**
- [Safarzadeh, S.](#), Rasti-Barzoki, M., Hejazi, S. R., & Piran, M. J. (2020). A game theoretic approach for the duopoly pricing of energy-efficient appliances regarding innovation protection and social welfare. *Energy*, 200, 117517. doi: <https://doi.org/10.1016/j.energy.2020.117517> **Published**
- [Safarzadeh, S.](#), & Rasti-Barzoki, M. (2019). A game theoretic approach for pricing policies in a duopolistic supply chain considering energy productivity, industrial rebound effect, and government policies. *Energy*, 167, 92-105. doi: <https://doi.org/10.1016/j.energy.2018.10.190> **Published**
- [Safarzadeh, S.](#), & Rasti-Barzoki, M. (2019). A game theoretic approach for assessing residential energy-efficiency program considering rebound, consumer behavior, and government policies. *Applied Energy*, 233-234, 44-61. doi: <https://doi.org/10.1016/j.apenergy.2018.10.032> **Published**
- [Safarzadeh, S.](#), Khansefid, S., & Rasti-Barzoki, M. (2018). A group multi-criteria decision-making based on best-worst method. *Computers & industrial engineering*, 126, 111-121. doi: <https://doi.org/10.1016/j.cie.2018.09.011> **Published**
- [Safarzadeh, S.](#), Shadrokh, S., & Salehian, A. (2018). A heuristic scheduling method for the pipe-spool fabrication process. *Journal of Ambient Intelligence and Humanized Computing*, 9(6), 1901-1918. doi:10.1007/s12652-018-0737-z **Published**
- [Safarzadeh, S.](#), & Rasti-Barzoki, M. (2018). A modified lexicographic semi-order model using the best-worst method. *Journal of Decision Systems*, 27(2), 78-91. doi:10.1080/12460125.2018.1498046 **Published**
- [Safarzadeh, S.](#), & Koosha, H. (2017). Solving an extended multi-row facility layout problem with fuzzy clearances using GA. *Applied Soft Computing*, 61, 819-831. doi: <https://doi.org/10.1016/j.asoc.2017.09.003> **Published**
- Esmaeeli, Z., Mollaverdi, N., & [Safarzadeh, S.](#) (2025). Investigating big data investment in a three-level green supply chain: A game theoretic approach. *Sharif Journal of Industrial Engineering & Management*, -. doi:10.24200/j65.2024.63579.2380 **Published**

- Eghbali, M. A. Rati-Barzoki, M. Safarzadeh, S. (2023). Dynamic analysis of the challenges of the green technological innovation ecosystem considering the cooperation of technological companies and start-ups under government intervention, *System Engineering and Productivity*, 3(3), 135-164. **Published**
- Safarzadeh, S., & Shadrokh, S. (2017). Spools weighted priorities determination for piping process with simple weighted sum method. *Farayandno*. **Published**
- Shahnaz, A. Koosha, H. R. & Safarzadeh, S. (September 2023). Prioritization of renewable energy sources with the help of developed multi-criteria decision-making algorithms (PAPRIKA and PAMSSEM methods). Paper presented at the 9th International Conference of Iranian Operations Research Society, Mashhad, Iran. **Published**
- Safarzadeh, S., & Akefi, H. (September 2023). A multi-objective approach for the Unequal Area Facility Layout Problem using a Bay Structure method and NSGA II. Paper presented at the 9th International Conference of Iranian Operations Research Society, Mashhad, Iran. **Published**
- Safarzadeh, S., & Koosha, H. (2015). An innovative method for solving multi-row layout design facilities, taking into account the opportunity cost locations. Paper presented at the 8th International Conference of Iranian Operations Research Society, Mashhad, Iran. **Published**

COURSES

Isfahan University of Technology

Game Theory	19.4/20
Integer programming	19.5/20
Multi-Criteria Decision-Making	19.2/20
Multivariate Analysis	19.5/20

Sharif University of Technology

Enterprise Resource Planning	19.9/20
Project Management	18.0/20

Ferdowsi University of Mashhad

Planning of industrial units	19.5/20
Production planning	19.0/20
Project Control	18.5/20

INTERESTED FIELDS

Applied Game Theory, Energy Policy, Supply Chain Management, Sustainability, Multi-Attribute Decision-Making (MADM)

LANGUAGES

Persian, native language

English, read/write with high proficiency, and speak with basic competence

Jan 2020-Jan 2022

Certificate: MSRT Exam, Student Affairs organization, License: [13981769778699706741](#)

OTHER SKILLS AND EXPERTISE

Research, Junior technical trader

Software skills (*Mathematica, GAMS, MATLAB, Expert Choice, Minitab, Arena, Microsoft Office, and popular research software*)