



## Malihe Niksirat

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### Employment Information

Faculty/Department	Position/Rank	Employment Type	Cooperation Type	Grade
(not set)	(not set)	On Contract	Full Time	(not set)

### Papers in Conferences

1. ملیحه نیک سیرت، راهکارهای هدایت مسیر در سیستم پیشرفته اطلاع رسانی رانندگان، سومین کنفرانس بین‌المللی فناوری‌های نوین در علوم، دانشگاه تخصصی فناوری‌های نوین آمل، ۲۸ اردیبهشت ۱۴۰۲.
2. نزدیکترین K- ملیحه نیک سیرت، محسن صفاریان، طبقه بندی و پیش بینی قیمت موبایل با استفاده از الگوریتم همسایه و ماشین بردار پشتیبان، پانزدهمین کنفرانس بین‌المللی انجمن ایرانی تحقیق در عملیات، ۲۵ آبان ۱۴۰۱.
3. ملیحه نیک سیرت، بررسی عملکرد الگوریتم ماشین بردار پشتیبان در تشخیص سرطان سینه، پانزدهمین کنفرانس بین‌المللی انجمن ایرانی تحقیق در عملیات، ۲۵ آبان ۱۴۰۱.
4. ملیحه نیک سیرت، طراحی و حل مدل زمانبندی زنجیره تامین استوار در شرایط فازی، نوزدهمین همایش بین‌المللی پیشرفت‌های علوم و تکنولوژی، موسسه آموزش عالی خاوران، مشهد، ۱۵ آذر ۱۴۰۱.
5. Niksirat, Malihe. Fuzzy linear programming problems with fuzzy constraints: a new approach. ۳rd International Conference on Challenges and New Solutions in Industrial Engineering. International University of Chabahar, ۱۰ November ۲۰۲۲.

### Papers in Journals

1. Mehdi Ghatee و Malihe Niksirat, A Hopfield neural network applied to the fuzzy maximum cut problem under credibility measure, Information Sciences, 2013.
2. Malihe Niksirat, Majid Abdolrazzagah, Nezhad. Binary fuzzy linear programming problems: a new solution. Journal of Decisions and Operations Research. شماره صفحات ۱۷-۲۹, ۲۰۲۴-۲۹.
3. Mohsen Saffarian, Malihe Niksirat, Mehdi Fatemi, Seyed Mahmood Hashemi, Fateme Ghorbani, Zainab Khosravi. Assessing the factors and evaluating the satisfaction of stakeholders in the South Khorasan gas company. Modern Research in Performance Evaluation. ۲۰۲۲.
4. Malihe Niksirat و Seyed Hadi Nasseri. Forecasting of the number of cases and deaths due to corona disease using neuro-fuzzy networks. Journal of Decisions and Operations Research. ۲۰۲۲.
5. Malihe Niksirat. Investigating the effect of virtual education on students' learning. Innovation Management and Operational Strategies (IMOS). ۲۰۲۲.
6. Malihe Niksirat. Service Pattern Modification by Considering Social Distancing under Uncertainty Conditions. Journal of Decisions and Operations Research. ۲۰۲۲.

7. Malihe Niksirat. Development of Model and Algorithm for Depot Balancing Multi-Depot Vehicle Scheduling Problem Considering Depot Balancing. *Journal of Operational Research In Its Applications*. ۲۰۲۰.
8. Malihe Niksirat. Fuzzy Integer Credibility Programming for Modeling and Solving Humanitarian Relief and Transportation Problem After the Crisis Under Uncertainty. *Defensive Future Studies (DFSR)*. ۲۰۱۹.
9. Javad Tayyebi, & Malihe Niksirat, Minimum st-cut interdiction problems with convex piecewise-linear costs, *Journal of Applied Mathematics and Computing*, 2025.
10. Malihe Niksirat, Javad Tayyebi, Seyedeh Fatemeh Javadi, Adrian Marius Deaconu, Developing a Model to Predict the Effectiveness of Vaccination on Mortality Caused by COVID-19, *Mathematics*, 2025.
11. Fuzzy multi-objective, multi-period integrated routing–scheduling problem to distribute relief to disaster areas: a hybrid Ant Colony optimization approach, *Mathematics*, 2024.
12. Tayyebi, J., Deaconu, A. M., Bigdeli, H., & Niksirat, M., Shortest path interdiction problem with convex piecewise-linear costs, *Computational and Applied Mathematics*, 2023.
13. M. Saffarian, M. Niksirat, M. Ghatee, S. H. Nasser, Branch-and-Price Based Heuristic Algorithm for Fuzzy Multi-Depot Bus Scheduling Problem, *Journal of Uncertainty, Fuzziness and Knowledge-Based Systems*, 2023.
14. Malihe Niksirat, Vehicle scheduling problem under uncertainty: literature review and future perspective, *AUT Journal of Mathematics and Computing (AJMC)*, 2022.
15. Malihe Niksirat, & S. Hadi Nasser, Knapsack Problem in Fuzzy Nature: Different Models Based on Credibility Ranking Method, *Yugoslav Journal of Operations Research*, 2022.
16. Niksirat, M., A new approach to solve fully fuzzy multi-objective transportation problem, *Fuzzy Information and Engineering*, 2022.
17. Malihe Niksirat, Intuitionistic Fuzzy Hub Location Problems: Model and Solution Approach, *Fuzzy Information and Engineering*, 2022.
18. Malihe Niksirat, & Seyed Naser Hashemi, The complexity of cost constrained vehicle scheduling problem, *AUT Journal of Mathematics and Computing (AJMC)*, 2021.
19. Mohsen Saffarian, Sobhan Mostafayi, Seyed Mahmood Kazemi, Malihe Niksirat, A two-level pricing-inventory-routing problem in green closed-loop supply chain: Bi-level programming and heuristic method, *Journal of Industrial and Systems Engineering*, 2021.
20. Mohsen Saffarian, Malihe Niksirat, Seyed Mahmood Kazemi, A Hybrid Genetic-Simulated Annealing-Auction Algorithm for a Fully Fuzzy Multi-Period Multi-Depot Vehicle Routing Problem, *International Journal of Supply and Operations Management (IJSOM)*, 2021.
21. Malihe Niksirat, State-of-the-Art Auction Algorithms for Multi-depot Bus Scheduling Problem Considering Depot Workload Balancing Constraints, *Fuzzy Information and Engineering*, 2020.
22. Malihe Niksirat, Efficient Algorithm Based on Network Flows for Two-Depot Bus Scheduling Problem, *Iranian Journal of Operations Research*, 2018.
23. Malihe Niksirat, S. Mehdi Hashemi, Mehdi Ghatee, Branch-and-price algorithm for fuzzy integer programming problems with block angular structure, *Fuzzy Sets and Systems*, 2016.
24. Malihe Niksirat, Mehdi Ghatee, S. Mehdi Hashemi, Multimodal K-shortest viable path problem in Tehran public transportation network and its solution applying ant colony and simulated annealing algorithms, *Applied Mathematical Modelling*, 2012.