

# Erfan Babae Tirkolae

## List of Publications by Citations

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59  
papers

1,485  
citations

25  
h-index

37  
g-index

69  
ext. papers

2,297  
ext. citations

4.1  
avg, IF

6.15  
L-index

#	Paper	IF	Citations
59	A novel hybrid method using fuzzy decision making and multi-objective programming for sustainable-reliable supplier selection in two-echelon supply chain design. <i>Journal of Cleaner Production</i> , <b>2020</b> , 250, 119517	10.3	114
58	A robust green location-allocation-inventory problem to design an urban waste management system under uncertainty. <i>Waste Management</i> , <b>2020</b> , 102, 340-350	8.6	78
57	Sustainable Fuzzy multi-trip location-routing problem for medical waste management during the COVID-19 outbreak. <i>Science of the Total Environment</i> , <b>2021</b> , 756, 143607	10.2	75
56	A robust periodic capacitated arc routing problem for urban waste collection considering drivers and crew's working time. <i>Waste Management</i> , <b>2018</b> , 76, 138-146	8.6	72
55	Evaluation of green and sustainable supply chain management using structural equation modelling: A systematic review of the state of the art literature and recommendations for future research. <i>Journal of Cleaner Production</i> , <b>2020</b> , 249, 119383	10.3	67
54	. <i>IEEE Transactions on Fuzzy Systems</i> , <b>2020</b> , 28, 2772-2783	8.3	65
53	An improved ant colony optimization for the multi-trip Capacitated Arc Routing Problem. <i>Computers and Electrical Engineering</i> , <b>2019</b> , 77, 457-470	4.3	56
52	Multi-objective optimization for the reliable pollution-routing problem with cross-dock selection using Pareto-based algorithms. <i>Journal of Cleaner Production</i> , <b>2020</b> , 276, 122927	10.3	55
51	A Hybrid Genetic Algorithm for Multi-Trip Green Capacitated Arc Routing Problem in the Scope of Urban Services. <i>Sustainability</i> , <b>2018</b> , 10, 1366	3.6	53
50	A multi-objective invasive weed optimization algorithm for robust aggregate production planning under uncertain seasonal demand. <i>Computing (Vienna/New York)</i> , <b>2019</b> , 101, 499-529	2.2	52
49	Developing an applied algorithm for multi-trip vehicle routing problem with time windows in urban waste collection: A case study. <i>Waste Management and Research</i> , <b>2019</b> , 37, 4-13	4	49
48	A hybrid augmented ant colony optimization for the multi-trip capacitated arc routing problem under fuzzy demands for urban solid waste management. <i>Waste Management and Research</i> , <b>2020</b> , 38, 156-172	4	48
47	Fuzzy Integrated Cell Formation and Production Scheduling considering Automated Guided Vehicles and Human Factors. <i>IEEE Transactions on Fuzzy Systems</i> , <b>2021</b> , 1-1	8.3	48
46	A robust bi-objective multi-trip periodic capacitated arc routing problem for urban waste collection using a multi-objective invasive weed optimization. <i>Waste Management and Research</i> , <b>2019</b> , 37, 1089-1101	4.1	43
45	Robust optimization and mixed-integer linear programming model for LNG supply chain planning problem. <i>Soft Computing</i> , <b>2020</b> , 24, 7885-7905	3.5	43
44	Multi-objective multi-mode resource constrained project scheduling problem using Pareto-based algorithms. <i>Computing (Vienna/New York)</i> , <b>2019</b> , 101, 547-570	2.2	40
43	Investigation of off-grid photovoltaic systems for a reverse osmosis desalination system: A case study. <i>Desalination</i> , <b>2019</b> , 454, 91-103	10.3	39

42	An augmented Tabu search algorithm for the green inventory-routing problem with time windows. <i>Swarm and Evolutionary Computation</i> , <b>2021</b> , 60, 100802	9.8	38
41	Designing a sustainable closed-loop supply chain network of face masks during the COVID-19 pandemic: Pareto-based algorithms.. <i>Journal of Cleaner Production</i> , <b>2021</b> , 333, 130056	10.3	36
40	Stable maintenance tasks scheduling: A bi-objective robust optimization model. <i>Computers and Industrial Engineering</i> , <b>2019</b> , 137, 106007	6.4	34
39	A robust multi-trip vehicle routing problem of perishable products with intermediate depots and time windows. <i>Numerical Algebra, Control and Optimization</i> , <b>2017</b> , 7, 417-433	1.7	32
38	A robust green traffic-based routing problem for perishable products distribution. <i>Computational Intelligence</i> , <b>2020</b> , 36, 80-101	2.5	29
37	A robust time-cost-quality-energy-environment trade-off with resource-constrained in project management: A case study for a bridge construction project. <i>Journal of Industrial and Management Optimization</i> , <b>2020</b> ,	2	26
36	Big Data-Driven Cognitive Computing System for Optimization of Social Media Analytics. <i>IEEE Access</i> , <b>2020</b> , 8, 82215-82226	3.5	25
35	A Self-Learning Particle Swarm Optimization for Robust Multi-Echelon Capacitated LocationAllocationInventory Problem. <i>Journal of Advanced Manufacturing Systems</i> , <b>2019</b> , 18, 677-694	1.8	25
34	A robust just-in-time flow shop scheduling problem with outsourcing option on subcontractors. <i>Production and Manufacturing Research</i> , <b>2019</b> , 7, 294-315	3.3	23
33	A robust bi-objective mathematical model for disaster rescue units allocation and scheduling with learning effect. <i>Computers and Industrial Engineering</i> , <b>2020</b> , 149, 106790	6.4	22
32	An Integrated Decision-Making Approach for Green Supplier Selection in an Agri-Food Supply Chain: Threshold of Robustness Worthiness. <i>Mathematics</i> , <b>2021</b> , 9, 1304	2.3	17
31	A sustainable medical waste collection and transportation model for pandemics. <i>Waste Management and Research</i> , <b>2021</b> , 39, 34-44	4	16
30	Multi-objective Aggregate Production Planning Model Considering Overtime and Outsourcing Options Under Fuzzy Seasonal Demand. <i>Lecture Notes in Mechanical Engineering</i> , <b>2019</b> , 81-96	0.4	15
29	Application of Machine Learning in Supply Chain Management: A Comprehensive Overview of the Main Areas. <i>Mathematical Problems in Engineering</i> , <b>2021</b> , 2021, 1-14	1.1	14
28	A Perishable Product Sustainable Supply Chain Network Design Problem with Lead Time and Customer Satisfaction using a Hybrid Whale-Genetic Algorithm. <i>Ecoproduction</i> , <b>2020</b> , 99-124	0.5	13
27	A closed-loop supply chain configuration considering environmental impacts: a self-adaptive NSGA-II algorithm. <i>Applied Intelligence</i> , <sup>1</sup>	4.9	11
26	Integrated design of sustainable supply chain and transportation network using a fuzzy bi-level decision support system for perishable products. <i>Expert Systems With Applications</i> , <b>2022</b> , 195, 116628	7.8	11
25	Application of Industry 4.0 in the Procurement Processes of Supply Chains: A Systematic Literature Review. <i>Sustainability</i> , <b>2021</b> , 13, 7520	3.6	11

24	An extended robust mathematical model to project the course of COVID-19 epidemic in Iran.. <i>Annals of Operations Research</i> , <b>2022</b> , 1-25	3.2	10
23	A fuzzy multi-objective optimization model for sustainable closed-loop supply chain network design in food industries. <i>Environment, Development and Sustainability</i> ,1	4.5	9
22	A Novel Approach for Group Decision Making Based on the Best/Worst Method (G-BWM): Application to Supply Chain Management. <i>Mathematics</i> , <b>2021</b> , 9, 1881	2.3	8
21	Foundations of semialgebraic gene-environment networks. <i>Journal of Dynamics and Games</i> , <b>2020</b> , 7, 253-268	1.9	7
20	A sustainable hybrid manufacturing/remanufacturing system with two-way substitution and WEEE directive under different market conditions. <i>Optimization</i> ,1-24	1.2	7
19	Multi-Objective Optimization for Healthcare Waste Management Network Design with Sustainability Perspective. <i>Sustainability</i> , <b>2021</b> , 13, 8279	3.6	7
18	The stochastic location-routing-inventory problem of perishable products with renegeing and balking. <i>Journal of Ambient Intelligence and Humanized Computing</i> ,1	3.7	6
17	Analyzing failures in adoption of smart technologies for medical waste management systems: a type-2 neutrosophic-based approach. <i>Environmental Science and Pollution Research</i> , <b>2021</b> , 1	5.1	5
16	A novel two-echelon hierarchical location-allocation-routing optimization for green energy-efficient logistics systems. <i>Annals of Operations Research</i> ,1	3.2	4
15	An Integration of Neural Network and Shuffled Frog-Leaping Algorithm for CNC Machining Monitoring. <i>Foundations of Computing and Decision Sciences</i> , <b>2021</b> , 46, 27-42	0.7	4
14	A novel model for sustainable waste collection arc routing problem: Pareto-based algorithms.. <i>Annals of Operations Research</i> , <b>2022</b> , 1-26	3.2	3
13	A Robust Two-Echelon Periodic Multi-commodity RFID-Based Location Routing Problem to Design Petroleum Logistics Networks: A Case Study. <i>Communications in Computer and Information Science</i> , <b>2021</b> , 3-23	0.3	3
12	A Cluster-based Stratified Hybrid Decision Support Model under Uncertainty: Sustainable Healthcare Landfill Location Selection.. <i>Applied Intelligence</i> , <b>2022</b> , 1-20	4.9	3
11	A Novel Formulation for the Sustainable Periodic Waste Collection Arc-Routing Problem: A Hybrid Multi-objective Optimization Algorithm. <i>Ecoproduction</i> , <b>2020</b> , 77-98	0.5	2
10	Using a Process Approach to Pandemic Planning: A Case Study. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 4121	2.6	2
9	Development of Dynamic Balanced Scorecard Using Case-Based Reasoning Method and Adaptive Neuro-Fuzzy Inference System. <i>IEEE Transactions on Engineering Management</i> , <b>2022</b> , 1-14	2.6	1
8	Sport Performance Analysis with a Focus on Racket Sports: A Review. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 9212	2.6	1
7	Evaluating the impacts of COVID-19 outbreak on supply chain risks by modified failure mode and effects analysis: a case study in an automotive company.. <i>Annals of Operations Research</i> , <b>2022</b> , 1-31	3.2	1

- 6 The time-dependent multi-depot fleet size and mix green vehicle routing problem: improved adaptive large neighbourhood search. *Optimization*,1-29 1.2 1
- 5 Optimization for Construction Supply Chain Management **2021**, 165-183 0
- 4 An Efficient Biography-Based Optimization Algorithm to Solve the Location Routing Problem With Intermediate Depots for Multiple Perishable Products **2019**, 189-205
- 3 An optimization algorithm and smart model for periodic capacitated arc routing problem considering mobile disposal sites **2019**, 52-66
- 2 A NOVEL BI-OBJECTIVE MODEL FOR A MULTI-PERIOD MULTI-PRODUCT CLOSED-LOOP SUPPLY CHAIN. *Mendislik Bilimleri Ve Tasarım Dergisi*, **2022**, 10, 38-49 0.2
- 1 Human paradigm and reliability for aggregate production planning under uncertainty **2022**, 193-201