

Mohammad Mahdi Paydar

List of Publications by Year in descending order

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Version: 2024-02-01

90
papers

2,952
citations

147566

31
h-index

189595

50
g-index

92
all docs

92
docs citations

92
times ranked

1771
citing authors

#	ARTICLE	IF	CITATIONS
1	An integrated fuzzy MOORA method and FMEA technique for sustainable supplier selection considering quantity discounts and supplier's risk. <i>Journal of Cleaner Production</i> , 2018, 190, 577-591.	4.6	196
2	Tree Growth Algorithm (TGA): A novel approach for solving optimization problems. <i>Engineering Applications of Artificial Intelligence</i> , 2018, 72, 393-414.	4.3	157
3	Designing a mathematical model for dynamic cellular manufacturing systems considering production planning and worker assignment. <i>Computers and Mathematics With Applications</i> , 2010, 60, 1014-1025.	1.4	127
4	Reverse logistics network design for medical waste management in the epidemic outbreak of the novel coronavirus (COVID-19). <i>Science of the Total Environment</i> , 2020, 746, 141183.	3.9	116
5	Genetic algorithm approach for solving a cell formation problem in cellular manufacturing. <i>Expert Systems With Applications</i> , 2009, 36, 6598-6604.	4.4	109
6	Multi-objective fuzzy robust optimization approach to sustainable closed-loop supply chain network design. <i>Computers and Industrial Engineering</i> , 2020, 148, 106716.	3.4	109
7	A bi-objective optimization for citrus closed-loop supply chain using Pareto-based algorithms. <i>Applied Soft Computing Journal</i> , 2018, 69, 33-59.	4.1	108
8	Designing and solving a bi-level model for rice supply chain using the evolutionary algorithms. <i>Computers and Electronics in Agriculture</i> , 2019, 162, 651-668.	3.7	86
9	Designing a bi-objective multi-echelon robust blood supply chain in a disaster. <i>Applied Mathematical Modelling</i> , 2018, 55, 583-599.	2.2	78
10	Disaster relief supply chain design for personal protection equipment during the COVID-19 pandemic. <i>Applied Soft Computing Journal</i> , 2021, 112, 107809.	4.1	72
11	Recovery solutions for ecotourism centers during the Covid-19 pandemic: Utilizing Fuzzy DEMATEL and Fuzzy VIKOR methods. <i>Expert Systems With Applications</i> , 2021, 185, 115594.	4.4	71
12	A hybrid genetic-variable neighborhood search algorithm for the cell formation problem based on grouping efficacy. <i>Computers and Operations Research</i> , 2013, 40, 980-990.	2.4	70
13	Robust bi-level optimization of relief logistics operations. <i>Applied Mathematical Modelling</i> , 2018, 56, 359-380.	2.2	70
14	A robust optimization model for the design of a cardboard closed-loop supply chain. <i>Journal of Cleaner Production</i> , 2017, 166, 1154-1168.	4.6	60
15	An engine oil closed-loop supply chain design considering collection risk. <i>Computers and Chemical Engineering</i> , 2017, 104, 38-55.	2.0	59
16	A reverse supply chain for medical waste: A case study in Babol healthcare sector. <i>Waste Management</i> , 2020, 113, 197-209.	3.7	58
17	Multi-objective cell formation and production planning in dynamic virtual cellular manufacturing systems. <i>International Journal of Production Research</i> , 2011, 49, 6517-6537.	4.9	56
18	Revised multi-choice goal programming for integrated supply chain design and dynamic virtual cell formation with fuzzy parameters. <i>International Journal of Computer Integrated Manufacturing</i> , 2015, 28, 251-265.	2.9	56

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19	Sustainable supplier selection and order allocation through quantity discounts. <i>International Journal of Management Science and Engineering Management</i> , 2018, 13, 20-32.	2.6	55
20	A new mathematical model for integrating all incidence matrices in multi-dimensional cellular manufacturing system. <i>Journal of Manufacturing Systems</i> , 2012, 31, 214-223.	7.6	52
21	Applying simulated annealing for designing cellular manufacturing systems using MDmTSP. <i>Computers and Industrial Engineering</i> , 2010, 59, 929-936.	3.4	49
22	Developing a lower bound and strong heuristics for a truck scheduling problem in a cross-docking center. <i>Knowledge-Based Systems</i> , 2017, 129, 17-38.	4.0	48
23	Scenario-based design of a steel sustainable closed-loop supply chain network considering production technology. <i>Journal of Cleaner Production</i> , 2020, 277, 123298.	4.6	46
24	Wheat sustainable supply chain network design with forecasted demand by simulation. <i>Computers and Electronics in Agriculture</i> , 2020, 178, 105763.	3.7	41
25	Tire forward and reverse supply chain design considering customer relationship management. <i>Resources, Conservation and Recycling</i> , 2018, 138, 215-228.	5.3	40
26	A flow matrix-based heuristic algorithm for cell formation and layout design in cellular manufacturing system. <i>International Journal of Advanced Manufacturing Technology</i> , 2008, 39, 943-953.	1.5	39
27	Designing and solving a reverse logistics network for polyethylene terephthalate bottles. <i>Journal of Cleaner Production</i> , 2018, 195, 605-617.	4.6	38
28	A robust bi-level optimization modelling approach for municipal solid waste management; a real case study of Iran. <i>Journal of Cleaner Production</i> , 2019, 240, 118125.	4.6	38
29	Applying a hybrid BWM-VIKOR approach to supplier selection: a case study in the Iranian agricultural implements industry. <i>International Journal of Applied Decision Sciences</i> , 2018, 11, 274.	0.2	37
30	A fuzzy stochastic multi-objective optimization model to configure a supply chain considering new product development. <i>Applied Mathematical Modelling</i> , 2016, 40, 7545-7570.	2.2	36
31	Forward and reverse supply chain network design for consumer medical supplies considering biological risk. <i>Computers and Industrial Engineering</i> , 2020, 140, 106229.	3.4	36
32	A robust optimisation model for generalised cell formation problem considering machine layout and supplier selection. <i>International Journal of Computer Integrated Manufacturing</i> , 2014, 27, 772-786.	2.9	34
33	A hybrid GA-AUGMECON method to solve a cubic cell formation problem considering different worker skills. <i>Computers and Industrial Engineering</i> , 2014, 75, 31-40.	3.4	32
34	Optimizing a multi-product closed-loop supply chain using NSGA-II, MOSA, and MOPSO meta-heuristic algorithms. <i>Journal of Industrial Engineering International</i> , 2018, 14, 305-326.	1.8	30
35	Optimizing a robust bi-objective supply chain network considering environmental aspects: a case study in plastic injection industry. <i>International Journal of Management Science and Engineering Management</i> , 2020, 15, 26-38.	2.6	30
36	Analysis and evaluation of challenges in the integration of Industry 4.0 and sustainable steel reverse logistics network. <i>Computers and Industrial Engineering</i> , 2022, 163, 107808.	3.4	30

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37	Production planning and worker training in dynamic manufacturing systems. <i>Journal of Manufacturing Systems</i> , 2013, 32, 308-314.	7.6	29
38	A Bi-Objective Stochastic Closed-loop Supply Chain Network Design Problem Considering Downside Risk. <i>Industrial Engineering and Management Systems</i> , 2017, 16, 342-362.	0.3	28
39	Emergency logistics planning under supply risk and demand uncertainty. <i>Operational Research</i> , 2020, 20, 1437-1460.	1.3	27
40	A hybrid genetic algorithm for integrating virtual cellular manufacturing with supply chain management considering new product development. <i>Computers and Industrial Engineering</i> , 2020, 145, 106565.	3.4	27
41	A meta-heuristic approach supported by NSGA-II for the design and plan of supply chain networks considering new product development. <i>Journal of Industrial Engineering International</i> , 2018, 14, 95-109.	1.8	25
42	Designing a mathematical model for dental tourism supply chain. <i>Tourism Management</i> , 2019, 75, 404-417.	5.8	25
43	Implementing sustainable ecotourism in Lafour region, Iran: Applying a clustering method based on SWOT analysis. <i>Journal of Cleaner Production</i> , 2021, 329, 129716.	4.6	25
44	Reaching sustainability through collection center selection considering risk: using the integration of Fuzzy ANP-TOPSIS and FMEA. <i>Soft Computing</i> , 2021, 25, 10885-10899.	2.1	23
45	A SIMULATED ANNEALING FOR INTRA-CELL LAYOUT DESIGN OF DYNAMIC CELLULAR MANUFACTURING SYSTEMS WITH ROUTE SELECTION, PURCHASING MACHINES AND CELL RECONFIGURATION. <i>Asia-Pacific Journal of Operational Research</i> , 2013, 30, 1350004.	0.9	18
46	A genetic algorithm for a bi-objective mathematical model for dynamic virtual cell formation problem. <i>Journal of Industrial Engineering International</i> , 2016, 12, 343-359.	1.8	18
47	A hybrid genetic algorithm for dynamic virtual cellular manufacturing with supplier selection. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 92, 3001-3017.	1.5	17
48	A faucet closed-loop supply chain network design considering used faucet exchange plan. <i>Journal of Cleaner Production</i> , 2019, 235, 503-518.	4.6	17
49	A multi-objective robust supply chain design considering reliability. <i>Journal of Industrial and Production Engineering</i> , 2019, 36, 385-400.	2.1	17
50	Discount and advertisement in ecotourism supply chain. <i>Asia Pacific Journal of Tourism Research</i> , 2021, 26, 668-684.	1.8	16
51	A fuzzy linear programming approach to layout design of dynamic cellular manufacturing systems with route selection and cell reconfiguration. <i>International Journal of Management Science and Engineering Management</i> , 2011, 6, 219-230.	2.6	15
52	New bi-objective robust design-based utilisation towards dynamic cell formation problem with fuzzy random demands. <i>International Journal of Computer Integrated Manufacturing</i> , 2015, 28, 577-592.	2.9	15
53	Optimizing decentralized production distribution planning problem in a multi-period supply chain network under uncertainty. <i>Journal of Industrial Engineering International</i> , 2018, 14, 367-382.	1.8	15
54	Design a bi-objective mathematical model for cellular manufacturing systems considering variable failure rate of machines. <i>International Journal of Production Research</i> , 2014, 52, 7401-7415.	4.9	13

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55	New criteria for configuration of cellular manufacturing considering product mix variation. Computers and Industrial Engineering, 2016, 98, 413-426.	3.4	13
56	Utilizing new approaches to address the fuzzy fixed charge transportation problem. Journal of Industrial and Production Engineering, 2018, 35, 148-159.	2.1	13
57	Designing a Dynamic Buyer-Supplier Coordination Model in Electronic Markets Using Stochastic Petri Nets. International Journal of Information Systems and Supply Chain Management, 2008, 1, 1-20.	0.6	13
58	Developing a mathematical model for cell formation in cellular manufacturing systems. International Journal of Operational Research, 2011, 11, 408.	0.1	12
59	A novel mathematical model for group purchasing in healthcare. Operations Research for Health Care, 2017, 15, 82-90.	0.8	12
60	Supply chain design to tackle coronavirus pandemic crisis by tourism management. Applied Soft Computing Journal, 2021, 104, 107217.	4.1	12
61	Group purchasing organization design: a clustering approach. Computational and Applied Mathematics, 2018, 37, 2065-2093.	1.3	11
62	Fuzzy stochastic linear programming-based approach for multiple departures single destination multiple travelling salesman problem. International Journal of Operational Research, 2013, 17, 417.	0.1	10
63	A disaster relief operations management model: a hybrid LP-GA approach. Neural Computing and Applications, 2020, 32, 1173-1194.	3.2	10
64	Ecotourism supply chain during the COVID-19 pandemic: A real case study. Applied Soft Computing Journal, 2021, 113, 107919.	4.1	10
65	A robust optimization model for multi-objective multi-period supply chain planning under uncertainty considering quantity discounts. Journal of Industrial and Production Engineering, 2018, 35, 214-228.	2.1	9
66	Customer relationship management and new product development in designing a robust supply chain. RAIRO - Operations Research, 2020, 54, 369-391.	1.0	9
67	A simulated annealing solution method for robust school bus routing. International Journal of Operational Research, 2017, 28, 307.	0.1	8
68	Designing a new integrated model for dynamic cellular manufacturing systems with production planning and intra-cell layout. International Journal of Applied Decision Sciences, 2013, 6, 117.	0.2	7
69	Data envelopment analysis in cellular manufacturing systems considering worker assignment. International Journal of Services and Operations Management, 2014, 18, 258.	0.1	7
70	Production planning and cell formation in dynamic virtual cellular manufacturing systems with worker flexibility. , 2009, , .		6
71	Applying the Delphi and fuzzy DEMATEL methods for identification and prioritization of the variables affecting Iranian citrus exports to Russia. Soft Computing, 2022, , 1-14.	2.1	6
72	A multi-objective location-routing model for dental waste considering environmental factors. Annals of Operations Research, 2023, 328, 755-792.	2.6	6

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73	Designing a clothing supply chain network considering pricing and demand sensitivity to discounts and advertisement. <i>RAIRO - Operations Research</i> , 2021, 55, S2509-S2541.	1.0	5
74	Solving a new mathematical model for cellular manufacturing system: Fuzzy goal programming. , 2008, , .		4
75	A possibilistic programming approach to analyze a closed-loop polyethylene tanks supply chain based on decision tree and discounted cash flow. <i>International Journal of Management Science and Engineering Management</i> , 2020, 15, 106-121.	2.6	4
76	Nested Bi-level metaheuristic algorithms for cellular manufacturing systems considering workers's interest. <i>RAIRO - Operations Research</i> , 2021, 55, S167-S194.	1.0	4
77	Designing a dual-channel supply chain network considering dependent demand and discount. <i>RAIRO - Operations Research</i> , 2021, 55, S2325-S2347.	1.0	4
78	Application of single depot multiple travelling salesman method to cell formation problems. <i>International Journal of Applied Decision Sciences</i> , 2010, 3, 390.	0.2	3
79	Evaluation and prioritisation of potential locations for investment in dental tourism. <i>Soft Computing</i> , 2021, 25, 15313-15333.	2.1	3
80	A simulated annealing solution method for robust school bus routing. <i>International Journal of Operational Research</i> , 2017, 28, 307.	0.1	3
81	A rich heterogeneous fleet vehicle routing problem with flexible time windows: a case study of dairy supply chain. <i>International Journal of Logistics Systems and Management</i> , 2018, 30, 386.	0.2	2
82	A bi-level bi-objective mathematical model for cellular manufacturing system applying evolutionary algorithms. <i>Scientia Iranica</i> , 2018, .	0.3	2
83	Applying fuzzy approach to develop transient probability matrix for on-line variable quality monitoring. <i>Computers and Industrial Engineering</i> , 2011, 60, 420-425.	3.4	1
84	A probabilistic model toward a permutation flowshop scheduling problem with imperfect jobs. <i>International Journal of Management Science and Engineering Management</i> , 2016, 11, 186-193.	2.6	1
85	On the n-job, m-machine permutation flow shop scheduling problems with makespan criterion and rework. <i>Scientia Iranica</i> , 2017, .	0.3	1
86	A rich heterogeneous fleet vehicle routing problem with flexible time windows: a case study of dairy supply chain. <i>International Journal of Logistics Systems and Management</i> , 2018, 30, 386.	0.2	1
87	Developing a bi-objective location-allocation-inventory problem for humanitarian relief logistics considering maximum allowed distances limitations. <i>International Journal of Services and Operations Management</i> , 2020, 37, 427.	0.1	1
88	Designing a mathematical model for intra-cell layout of dynamic cellular manufacturing systems considering production planning and system reconfiguration. , 2010, , .		0
89	Cell formation configuration using interval type-2 fuzzy interactional interests among workers. <i>International Journal of Operational Research</i> , 2017, 30, 172.	0.1	0
90	Relief commodities distribution planning considering the features of demand areas: a robust multi-objective approach. <i>Scientia Iranica</i> , 2017, .	0.3	0