Farhad Hosseinzadeh Lotfi

List of Publications by Year
in descending order

232 papers	5,372 citations	117453 34 h-index	106150 65 g-index
238 all docs	238 docs citations	238 times ranked	2882 citing authors

#	Article	IF	Citations
1	An algorithmic method to extend TOPSIS for decision-making problems with interval data. Applied Mathematics and Computation, 2006, 175, 1375-1384.	1.4	493
2	Extension of the TOPSIS method for decision-making problems with fuzzy data. Applied Mathematics and Computation, 2006, 181, 1544-1551.	1.4	485
3	Imprecise Shannonâ€™s Entropy and Multi Attribute Decision Making. Entropy, 2010, 12, 53-62.	1.1	296
4	Solving a full fuzzy linear programming using lexicography method and fuzzy approximate solution. Applied Mathematical Modelling, 2009, 33, 3151-3156.	2.2	203
5	Optimal operation scheduling of wind power integrated with compressed air energy storage (CAES). Renewable Energy, 2013, 51, 53-59.	4.3	164
6	Extension of TOPSIS for decision-making problems with interval data: Interval efficiency. Mathematical and Computer Modelling, 2009, 49, 1137-1142.	2.0	156
7	Supply chain performance evaluation with data envelopment analysis and balanced scorecard approach. Applied Mathematical Modelling, 2014, 38, 5092-5112.	2.2	123
8	Allocating fixed resources and setting targets using a common-weights DEA approach. Computers and Industrial Engineering, 2013, 64, 631-640.	3.4	109
9	Selecting symmetric weights as a secondary goal in DEA cross-efficiency evaluation. Applied Mathematical Modelling, 2011, 35, 544-549.	2.2	93
10	A new DEA ranking system based on changing the reference set. European Journal of Operational Research, 2007, 181, 331-337.	3.5	91
11	A primal-dual method for linear programming problems with fuzzy variables. European Journal of Industrial Engineering, 2010, 4, 189.	0.5	91
12	A note on some of DEA models and finding efficiency and complete ranking using common set of weights. Applied Mathematics and Computation, 2005, 166, 265-281.	1.4	90
13	A three-stage Data Envelopment Analysis model with application to banking industry. Measurement: Journal of the International Measurement Confederation, 2014, 49, 308-319.	2.5	84
14	An alternative approach for equitable allocation of shared costs by using DEA. Applied Mathematics and Computation, 2004, 153, 267-274.	1.4	76
15	Ranking of units by positive ideal DMU with common weights. Expert Systems With Applications, 2010, 37, 7483-7488.	4.4	74
16	Undesirable inputs and outputs in DEA models. Applied Mathematics and Computation, 2005, 169, 917-925.	1.4	70
17	A common-weights DEA model for centralized resource reduction and target setting. Computers and Industrial Engineering, 2015, 79, 195-203.	3.4	68
18	A hybrid fuzzy rule-based multi-criteria framework for sustainable project portfolio selection. Information Sciences, 2013, 220, 442-462.	4.0	66

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19	Ranking using l1-norm in data envelopment analysis. Applied Mathematics and Computation, 2004, 153, 215-224.	1.4	59
20	BOUNDED LINEAR PROGRAMS WITH TRAPEZOIDAL FUZZY NUMBERS. International Journal of Uncertainty, Fuzziness and Knowlege-Based Systems, 2010, 18, 269-286.	0.9	57
21	Relationship between MOLP and DEA based on output-orientated CCR dual model. Expert Systems With Applications, 2010, 37, 4331-4336.	4.4	54
22	A Review of Ranking Models in Data Envelopment Analysis. Journal of Applied Mathematics, 2013, 2013, 1-20.	0.4	53
23	Target setting in the general combined-oriented CCR model using an interactive MOLP method. Journal of Computational and Applied Mathematics, 2010, 234, 1-9.	1.1	52
24	A cross-efficiency model based on super-efficiency for ranking units through the TOPSIS approach and its extension to the interval case. Mathematical and Computer Modelling, 2011, 53, 1946-1955.	2.0	52
25	A New Method for Defuzzification and Ranking of Fuzzy Numbers Based on the Statistical Beta Distribution. Advances in Fuzzy Systems, 2016, 2016, 1-8.	0.6	51
26	Determining relative efficiency of slightly non-homogeneous decision making units by data envelopment analysis: a case study in IROST. Applied Mathematics and Computation, 2005, 165, 313-328.	1.4	50
27	Finding strong defining hyperplanes of Production Possibility Set. European Journal of Operational Research, 2007, 177, 42-54.	3.5	47
28	Centralized resource allocation for enhanced Russell models. Journal of Computational and Applied Mathematics, 2010, 235, 1-10.	1.1	45
29	A generalized model for data envelopment analysis with interval data. Applied Mathematical Modelling, 2009, 33, 3237-3244.	2.2	42
30	Input estimation and identification of extra inputs in inverse DEA models. Applied Mathematics and Computation, 2004, 156, 427-437.	1.4	41
31	Ranking DMUs by ideal points with interval data in DEA. Applied Mathematical Modelling, 2011, 35, 218-229.	2.2	40
32	On the fuzzy solution of LR fuzzy linear systems. Applied Mathematical Modelling, 2013, 37, 1170-1176.	2.2	39
33	An improved method for ranking alternatives in multiple criteria decision analysis. Applied Mathematical Modelling, 2013, 37, 25-33.	2.2	38
34	Ranking efficient DMUs using the Tchebycheff norm. Applied Mathematical Modelling, 2012, 36, 46-56.	2.2	36
35	An analysis of the implementation of energy efficiency measures in the vegetable oil industry of Iran: a data envelopment analysis approach. Journal of Cleaner Production, 2013, 52, 84-93.	4.6	36
36	Optimising proportional weights as a secondary goal in DEA cross-efficiency evaluation. International Journal of Operational Research, 2014, 19, 234.	0.1	36

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37	The voting analytic hierarchy process method for discriminating among efficient decision making units in data envelopment analysis. Computers and Industrial Engineering, 2011, 60, 585-592.	3.4	35
38	Finding the piecewise linear frontier production function in data envelopment analysis. Applied Mathematics and Computation, 2005, 163, 483-488.	1.4	34
39	Comparison of Fuzzy AHP and Fuzzy TOPSIS Methods for Math Teachers Selection. Indian Journal of Science and Technology, 2015, 8, .	0.5	34
40	A new method for measuring congestion in data envelopment analysis. Socio-Economic Planning Sciences, 2010, 44, 240-246.	2.5	33
41	Fuzzy arithmetic DEA approach for fuzzy multi-objective transportation problem. Operational Research, 2022, 22, 1479-1509.	1.3	33
42	Sensitivity and stability analysis in DEA. Applied Mathematics and Computation, 2005, 169, 897-904.	1.4	32
43	A Multi-Criteria Intuitionistic Fuzzy Group Decision Making Method for Supplier Selection with VIKOR Method. International Journal of Fuzzy System Applications, 2012, 2, 1-17.	0.5	32
44	One DEA ranking method based on applying aggregate units. Expert Systems With Applications, 2011, 38, 13468-13471.	4.4	31
45	Sensitivity of efficiency classifications in the inverse DEA models. Applied Mathematics and Computation, 2005, 169, 905-916.	1.4	29
46	A linear programming approach to test efficiency in multi-objective linear fractional programming problems. Applied Mathematical Modelling, 2010, 34, 4179-4183.	2.2	29
47	Ranking DMUs by l1-norm with fuzzy data in DEA. Chaos, Solitons and Fractals, 2009, 39, 2294-2302.	2.5	28
48	Equivalence relationship between the general combined-oriented CCR model and the weighted minimax MOLP formulation. Journal of King Saud University - Science, 2012, 24, 47-54.	1.6	28
49	An integrated data envelopment analysisâ€“artificial neural network approach for benchmarking of bank branches. Journal of Industrial Engineering International, 2016, 12, 137-143.	1.8	28
50	Recognizing strong and weak congestion slack based in data envelopment analysis. Computers and Industrial Engineering, 2013, 64, 731-738.	3.4	27
51	The multiobjective stochastic CRITICâ€“TOPSIS approach for solving the shipboard crane selection problem. International Journal of Intelligent Systems, 2020, 35, 1570-1598.	3.3	27
52	Finding weak defining hyperplanes of PPS of the BCC model. Applied Mathematical Modelling, 2010, 34, 3321-3332.	2.2	26
53	Common weights in dynamic network DEA with goal programming approach for performance assessment of insurance companies in Iran. Management Research Review, 2018, 41, 920-938.	1.5	26
54	Quantitative Analysis of Key Performance Indicators of Green Supply Chain in FMCG Industries Using Non-Linear Fuzzy Method. Mathematics, 2019, 7, 1020.	1.1	26

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55	The outputs estimation of a DMU according to improvement of its efficiency. Applied Mathematics and Computation, 2004, 147, 409-413.	1.4	25
56	A DEA approach for fair allocation of common revenue. Applied Mathematics and Computation, 2005, 160, 719-724.	1.4	25
57	Centralized resource allocation with stochastic data. Journal of Computational and Applied Mathematics, 2012, 236, 1783-1788.	1.1	25
58	Estimating most productive scale size with imprecise-chance constrained inputâ€“output orientation model in data envelopment analysis. Computers and Industrial Engineering, 2012, 63, 254-261.	3.4	25
59	Fuzzy chance-constrained data envelopment analysis: a structured literature review, current trends, and future directions. Fuzzy Optimization and Decision Making, 2022, 21, 197-261.	3.4	25
60	Super-efficiency in DEA by effectiveness of each unit in society. Applied Mathematics Letters, 2011, 24, 623-626.	1.5	24
61	Evolution of a new surface water quality index for Karoon catchment in Iran. Water Science and Technology, 2011, 64, 2483-2491.	1.2	24
62	Using Monte Carlo method for ranking efficient DMUs. Applied Mathematics and Computation, 2005, 162, 371-379.	1.4	23
63	Finding closest target for bank branches in the presence of weight restrictions using data envelopment analysis. Annals of Operations Research, 2020, 288, 755-787.	2.6	22
64	Solving the fully fuzzy multi-objective transportation problem based on the common set of weights in DEA. Journal of Intelligent and Fuzzy Systems, 2020, 39, 3099-3124.	0.8	22
65	Assessing the performance of organizations with the hierarchical structure using data envelopment analysis: An efficiency analysis of Farhangian University. Measurement: Journal of the International Measurement Confederation, 2020, 156, 107609.	2.5	22
66	Using Enhanced Russell Model to Solve Inverse Data Envelopment Analysis Problems. Scientific World Journal, The, 2014, 2014, 1-10.	0.8	21
67	A mixed integer bi-level DEA model for bank branch performance evaluation by Stackelberg approach. Journal of Industrial Engineering International, 2016, 12, 81-91.	1.8	21
68	Selecting a green supplier utilizing the new fuzzy voting model and the fuzzy combinative distance-based assessment method. EURO Journal on Decision Processes, 2022, 10, 100010.	1.8	21
69	An integrated group FWA-ELECTRE III approach based on interval type-2 fuzzy sets for solving the MCDM problems using limit distance mean. Complex & Intelligent Systems, 2020, 6, 355-389.	4.0	20
70	An MOLP based procedure for finding efficient units in DEA models. Central European Journal of Operations Research, 2009, 17, 1-11.	1.1	19
71	Centralized DEA-based reallocation of emission permits under cap and trade regulation. Journal of Cleaner Production, 2019, 234, 306-314.	4.6	19
72	Solving fuzzy multi-objective shortest path problem based on data envelopment analysis approach. Complex & Intelligent Systems, 2021, 7, 725-740.	4.0	19

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73	Finding DEA-efficient hyperplanes using MOLP efficient faces. Journal of Computational and Applied Mathematics, 2011, 235, 1227-1231.	1.1	18
74	Using Monte Carlo method for ranking interval data. Applied Mathematics and Computation, 2008, 201, 613-620.	1.4	17
75	Efficiency evaluation of urban development in Yazd City, Central Iran using data envelopment analysis. Environmental Monitoring and Assessment, 2016, 188, 618.	1.3	17
76	The effect of correlation coefficient among multiple input vectors on the efficiency mean in data envelopment analysis. Applied Mathematics and Computation, 2005, 162, 503-521.	1.4	16
77	Development of a model to assess environmental performance, concerning HSE-MS principles. Environmental Monitoring and Assessment, 2010, 165, 517-528.	1.3	16
78	Target setting in data envelopment analysis using MOLP. Applied Mathematical Modelling, 2011, 35, 328-338.	2.2	16
79	A DEA approach for comparative analysis of service quality dimensions with a case study in hotel industry. International Journal of Services and Operations Management, 2012, 12, 289.	0.1	16
80	Assessment and budget allocation of Iranian natural gas distribution company- A CSW DEA based model. Socio-Economic Planning Sciences, 2019, 66, 112-118.	2.5	16
81	A feasible interval for weights in data envelopment analysis. Applied Mathematics and Computation, 2005, 160, 155-168.	1.4	15
82	Sensitivity analysis of inefficient units in data envelopment analysis. Mathematical and Computer Modelling, 2011, 53, 587-596.	2.0	15
83	An AHP/DEA ranking method based on service quality approach: a case study in hotel industry. International Journal of Productivity and Quality Management, 2013, 11, 434.	0.1	15
84	Application of water pinch technology for water and wastewater minimization in aluminum anodizing industries. International Journal of Environmental Science and Technology, 2010, 7, 281-290.	1.8	14
85	Using the gradient line for ranking DMUs in DEA. Applied Mathematics and Computation, 2004, 151, 209-219.	1.4	13
86	A one-model approach to classification and sensitivity analysis in DEA. Applied Mathematics and Computation, 2005, 169, 887-896.	1.4	13
87	A method for generating all efficient solutions of 0-1 multi-objective linear programming problem. Applied Mathematics and Computation, 2005, 169, 874-886.	1.4	13
88	Performance evaluation of hotels by data envelopment analysis based on customers' perception and gap analysis. International Journal of Services and Operations Management, 2012, 12, 447.	0.1	13
89	A new method for ranking non-extreme efficient units in data envelopment analysis. Optimization Letters, 2013, 7, 309-324.	0.9	13
90	Assessing the efficiency of Iran health system in making progress towards universal health coverage: a comparative panel data analysis. Cost Effectiveness and Resource Allocation, 2020, 18, 20.	0.6	13

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91	A Parametric Method for Ranking Intuitionistic Fuzzy Numbers and Its Application to Solve Intuitionistic Fuzzy Network Data Envelopment Analysis Models. Complexity, 2020, 2020, 1-25.	0.9	13
92	Efficiency Measure Under Inter-Temporal Dependence. International Journal of Information Technology and Decision Making, 2018, 17, 657-675.	2.3	12
93	A ranking system based on inverse data envelopment analysis. IMA Journal of Management Mathematics, 2020, 31, 367-385.	1.1	12
94	Sensitivity and stability analysis in data envelopment analysis. Journal of the Operational Research Society, 2005, 56, 342-345.	2.1	11
95	Sensitivity analysis of efficient units in the presence of non-discretionary inputs. Applied Mathematics and Computation, 2007, 190, 1185-1197.	1.4	11
96	Discriminant analysis of interval data using Monte Carlo method in assessment of overlap. Applied Mathematics and Computation, 2007, 191, 521-532.	1.4	11
97	A Network-Based Data Envelope Analysis Model in a Dynamic Balanced Score Card. Mathematical Problems in Engineering, 2015, 2015, 1-13.	0.6	11
98	Resource allocation and target setting: a CSWâ€“DEA based approach. Annals of Operations Research, 2022, 318, 557-589.	2.6	11
99	An alternative approach in the estimation of returns to scale under weight restrictions. Applied Mathematics and Computation, 2007, 189, 719-724.	1.4	9
100	DEGENERACY IN FUZZY LINEAR PROGRAMMING AND ITS APPLICATION. International Journal of Uncertainty, Fuzziness and Knowlege-Based Systems, 2011, 19, 999-1012.	0.9	9
101	Efficiency and benchmarking in the presence of undesirable (bad) outputs: A DEA approach. International Journal of Applied Mathematical Research, 2012, 1, .	0.2	9
102	Review of Input Congestion Estimating Methods in DEA. Journal of Applied Mathematics, 2014, 2014, 1-9.	0.4	9
103	A modified imperialist competitive algorithm for scheduling single batch-processing machine with fuzzy due date. International Journal of Advanced Manufacturing Technology, 2016, 85, 2439-2458.	1.5	9
104	Ranking of petrochemical companies using preferential voting at unequal levels of voting power through data envelopment analysis. Mathematical Sciences, 2019, 13, 287-297.	1.0	9
105	A new linear method to find the congestion hyperplane in DEA. Mathematical Sciences, 2019, 13, 43-52.	1.0	9
106	Data Envelopment Analysis with R. Studies in Fuzziness and Soft Computing, 2020, , .	0.6	9
107	Technical efficiency in health production: A comparison between Iran and other upper middle-income countries. Health Policy and Technology, 2020, 9, 335-347.	1.3	9
108	Uncertain SBM data envelopment analysis model: A case study in Iranian banks. International Journal of Finance and Economics, 2021, 26, 2674-2689.	1.9	9

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109	Notes on Sensitivity and Stability of the Classifications of Returns to Scale in Data Envelopment Analysis. Journal of Productivity Analysis, 2005, 23, 309-313.	0.8	8
110	Performance measurement of police traffic centres using fuzzy DEA-based Malmquist productivity index. International Journal of Multicriteria Decision Making, 2012, 2, 94.	0.1	8
111	Proposing a novel heuristic algorithm for university course timetabling problem with the quality of courses rendered approach; a case study. AEJ - Alexandria Engineering Journal, 2020, 59, 3355-3367.	3.4	8
112	Ranking non-extreme efficient units based on super efficiency method in the presence of undesirable outputs: a DEA approach. International Journal of Applied Decision Sciences, 2013, 6, 83.	0.2	7
113	Modified Malmquist Productivity Index Based on Present Time Value of Money. Journal of Applied Mathematics, 2013, 2013, 1-8.	0.4	7
114	Estimation of Congestion in Free Disposal Hull Models Using Data Envelopment Analysis. Scientific World Journal, The, 2014, 2014, 1-8.	0.8	7
115	Inverse DEA in two-stage systems based onÂallocative efficiency. Journal of Intelligent and Fuzzy Systems, 2021, 40, 591-603.	0.8	7
116	Benchmarking bank branches : A dynamic DEA approach. Journal of Information and Optimization Sciences, 2021, 42, 1203-1236.	0.2	7
117	Data envelopment scenario analysis with imprecise data. Central European Journal of Operations Research, 2011, 19, 65-79.	1.1	6
118	On efficiency in convex hull of DMUs. Applied Mathematical Modelling, 2013, 37, 2267-2278.	2.2	6
119	Implementing energy efficiency for target setting in the sugar industry of Iran. International Journal of Environmental Science and Technology, 2017, 14, 1697-1712.	1.8	6
120	Finding a solution for Multi-Objective Linear Fractional Programming problem based on goal programming and Data Envelopment Analysis. RAIRO - Operations Research, 2017, 51, 199-210.	1.0	6
121	Incorporation of Inefficiency Associated with Link Flows in Efficiency Measurement in Network DEA. Mathematical Problems in Engineering, 2018, 2018, 1-12.	0.6	6
122	Using credibility theory to evaluate the fuzzy two-stage DEA: Sensitivity and stability analysis. Journal of Intelligent and Fuzzy Systems, 2019, 37, 5777-5796.	0.8	6
123	Fair Allocation Fixed Cost Using Cross-Efficiency Based on Pareto Concept. Asia-Pacific Journal of Operational Research, 2020, 37, 1950036.	0.9	6
124	Efficiency measurement of the environmental systems: a two-stage structure considering undesirable outputs. Management of Environmental Quality, 2020, 32, 227-242.	2.2	6
125	A Hybrid BSC-DEA Model with Indeterminate Information. Journal of Mathematics, 2021, 2021, 1-14.	0.5	6
126	Imprecise DEA Models to Assess the Agility of Supply Chains. Studies in Fuzziness and Soft Computing, 2014, , 167-198.	0.6	6

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127	A DATA ENVELOPMENT ANALYSIS APPROACH FOR MEASURING THE EFFICIENCY OF EMPLOYEES: A CASE STUDY. South African Journal of Industrial Engineering, 2012, 23, .	0.2	6
128	Two-Step Estimation of the Impact of Contextual Variables on Technical Efficiency of Hospitals: The Case Study of Public Hospitals in Iran. Frontiers in Public Health, 2021, 9, 785489.	1.3	6
129	Finding the efficiency score and RTS characteristic of DMUs by means of identifying the efficient frontier in DEA. Applied Mathematics and Computation, 2005, 170, 985-993.	1.4	5
130	Modified piecewise linear DEA model. European Journal of Operational Research, 2010, 205, 729-733.	3.5	5
131	Periodic efficiency measurement for achieving correct efficiency among several terms of evaluation. International Journal of Operational Research, 2013, 18, 1.	0.1	5
132	Hybrid Metaheuristics for Solving a Fuzzy Single Batch-Processing Machine Scheduling Problem. Scientific World Journal, The, 2014, 2014, 1-10.	0.8	5
133	An extended slacks-based measure model for data envelopment analysis with negative data. Journal of the Operational Research Society, 2015, 66, 1206-1211.	2.1	5
134	Using goal programming method to solve DEA problems with value judgments. Yugoslav Journal of Operations Research, 2014, 24, 267-282.	0.5	5
135	The Effects of Training and Other Factors on Problem Solving in Students. European Journal of Contemporary Education, 2017, 6, .	0.7	5
136	Portfolio optimization with asset preselection using data envelopment analysis. Central European Journal of Operations Research, 2023, 31, 287-310.	1.1	5
137	A METHOD FOR GENERATING ALL THE EFFICIENT SOLUTIONS OF A 0-1 MULTI-OBJECTIVE LINEAR PROGRAMMING PROBLEM. Asia-Pacific Journal of Operational Research, 2004, 21, 127-139.	0.9	4
138	Egoistâ€™s dilemma with interval data. Applied Mathematics and Computation, 2006, 183, 94-105.	1.4	4
139	A data envelopment analysis approach based on the service qualtiy concept for vendor selection. , 2009, , .		4
140	An Application of Monte-Carlo-Based Sensitivity Analysis on the Overlap in Discriminant Analysis. Journal of Applied Mathematics, 2012, 2012, 1-14.	0.4	4
141	An Interactive Procedure to Solve Multi-Objective Decision-Making Problem: An Improvment to STEM Method. Journal of Applied Mathematics, 2012, 2012, 1-18.	0.4	4
142	Sensitivity analysis of the additive model in data envelopment analysis while inputs and outputs are fuzzy data. International Journal of Computer Mathematics, 2012, 89, 625-638.	1.0	4
143	Evaluation progress and regress of balanced scorecards by multi-stage Malmquist Productivity Index. Journal of Industrial and Production Engineering, 2013, 30, 345-354.	2.1	4
144	Centralized Resource Allocation for Connecting Radial and Nonradial Models. Journal of Applied Mathematics, 2014, 2014, 1-12.	0.4	4

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145	A modified model for sensitivity analysis of inefficient DMUs in DEA: a case study in hotel industry. International Journal of Operational Research, 2014, 19, 186.	0.1	4
146	Practical benchmarking in DEA using artificial DMUs. Journal of Industrial Engineering International, 2019, 15, 293-301.	1.8	4
147	Optimal scale sizes in inputâ€“output allocative data envelopment analysis models. Annals of Operations Research, 2022, 315, 1455-1476.	2.6	4
148	Preserving cost and revenue efficiency through inverse data envelopment analysis models. Infor, 2020, 58, 561-578.	0.5	4
149	Introduction to Data Envelopment Analysis and Fuzzy Sets. Studies in Fuzziness and Soft Computing, 2020, , 1-17.	0.6	4
150	Vulnerability Assessment and Modelling of Urban Growth Using Data Envelopment Analysis. Journal of the Indian Society of Remote Sensing, 2021, 49, 259-273.	1.2	4
151	Cross Malmquist Productivity Index in Data Envelopment Analysis. 4or, 2022, 20, 567-602.	1.0	4
152	Group multiple criteria ABC inventory classification using TOPSIS approach extended by Gaussian interval type-2 fuzzy sets and optimization programs. Scientia Iranica, 2018, .	0.3	4
153	Hybrid cluster analyzing and data envelopment analysis with interval data. Scientia Iranica, 2017, .	0.3	4
154	A method for finding efficient DMUs in DEA Using 0â€“1 linear programming. Applied Mathematics and Computation, 2004, 159, 37-45.	1.4	3
155	The identification of nondominated and efficient paths on a network. Applied Mathematics and Computation, 2005, 169, 866-873.	1.4	3
156	An application of multi-component ranking in banks by context-dependent DEA for non-extreme efficient DMUs. International Journal of Operational Research, 2013, 18, 171.	0.1	3
157	A new hybrid decision making system for supplier selection. RAIRO - Operations Research, 2016, 50, 645-664.	1.0	3
158	Health, safety and environmental unit performance assessment model under uncertainty (case study:) Tj ETQq0 0 0 rgBT /Overlock 10 T	1.3	3
159	Multi-objective interior search algorithm for optimization: A new multi-objective meta-heuristic algorithm. Journal of Intelligent and Fuzzy Systems, 2018, 35, 3307-3319.	0.8	3
160	Sustainability assessment of Iranian petrochemical companies in stock exchange: A data envelopment analysisâ€based approach. Expert Systems, 2020, 37, e12359.	2.9	3
161	Cost efficiency measurement with price uncertainty: a data envelopment analysis. Mathematical Sciences, 2020, 14, 387-396.	1.0	3
162	A full investigation of the directional congestion in data envelopment analysis. RAIRO - Operations Research, 2021, 55, S571-S591.	1.0	3

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163	Fuzzy Data Envelopment Analysis Models with R Codes. Studies in Fuzziness and Soft Computing, 2020, , 163-236.	0.6	3
164	A new method of determining decision-making unit congestion under inter-temporal dependence. Soft Computing, 2022, 26, 2063-2073.	2.1	3
165	Modified Nonradial Supper Efficiency Models. Journal of Applied Mathematics, 2014, 2014, 1-5.	0.4	2
166	An application of DEA in efficiency evaluation of universities. International Journal of Mathematics in Operational Research, 2014, 6, 550.	0.1	2
167	Using Computing with Words for Selecting Projects in Field of Fuel Consumption Reduction. Indian Journal of Science and Technology, 2015, 8, .	0.5	2
168	Estimation of Overall Returns to Scale (RTS) of a Frontier Unit Using the Left and Right RTS. Computational Economics, 2019, 53, 633-655.	1.5	2
169	Hybrid efficiency measurement and target setting based on identifying defining hyperplanes of the PPS with negative data. Operational Research, 2020, 20, 1055-1092.	1.3	2
170	Efficiency changes index in the network data envelopment analysis with non-radial model. Asian-European Journal of Mathematics, 2020, 13, 2050031.	0.2	2
171	The Efficiency of self-employed general practitioners and factors affecting it: a study in Iran. BMC Research Notes, 2020, 13, 266.	0.6	2
172	Performance and competition analysis with fixed-sum measures : A case on OPEC members. Journal of Information and Optimization Sciences, 2021, 42, 669-687.	0.2	2
173	Efficiency of Green Supply Chain in the presence of non-discretionary and undesirable factors, using Data Envelopment Analysis. Business Informatics, 2021, 15, 78-96.	0.5	2
174	Using DEA Models for Ranking Compounds as Acetylcholinesterase Inhibitors in the Management of Alzheimer's. Iranian Journal of Science and Technology, Transaction A: Science, 2022, 46, 189-202.	0.7	2
175	Hierarchical non-Archimedean DEA models: application on mobile money agents locations in the city of Harare. International Journal of Data Science, 2020, 5, 181.	0.1	2
176	A slacks-based measure approach for efficiency decomposition in multi-period two-stage systems. RAIRO - Operations Research, 2020, 54, 1657-1671.	1.0	2
177	New Approach in Fixed Resource Allocation and Target Setting Using Data Envelopment Analysis with Common Set of Weights. Complexity, 2022, 2022, 1-11.	0.9	2
178	Fuzzy efficiency evaluation in relational network data envelopment analysis: application in gas refineries. Complex & Intelligent Systems, 0, , 1.	4.0	2
179	Application of Multi-Layer Recurrent Neural Network and fuzzy time series in input/output prediction of DEA models: Real case study of a Commercial Bank. , 2010, , .		1
180	Data Envelopment Analysis and Malmquist Productivity Index for Measuring Group Performance on Interval Data. Advanced Materials Research, 0, 383-390, 4528-4534.	0.3	1

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181	Sensitivity and stability analysis on the first and second levels of efficiency score relative to data error. Applied Mathematical Modelling, 2012, 36, 6132-6136.	2.2	1
182	An Extension of Cross Redundancy of Interval Scale Outputs and Inputs in DEA. Journal of Applied Mathematics, 2013, 2013, 1-7.	0.4	1
183	Sensitivity analysis of ranking decision making units in data envelopment analysis. International Journal of Modelling in Operations Management, 2013, 3, 20.	0.0	1
184	Finding the strong efficient frontier and strong defining hyperplanes of production possibility set using multiple objective linear programming. Operational Research, 2020, , 1.	1.3	1
185	Radial Models for Classifying Flexible Measures in Two-Stage Network DEA. Advances in Intelligent Systems and Computing, 2021, , 483-500.	0.5	1
186	A model to evaluate the effects of the returns to scale on the inverse data envelopment analysis. Mathematical Sciences, 2021, 15, 111-121.	1.0	1
187	Fair Allocation of Fixed Costs in Data Envelopment Analysis. Advances in Intelligent Systems and Computing, 2021, , 399-405.	0.5	1
188	A hybrid approach using data envelopment analysis, interval programming and robust optimisation for performance assessment of hotels under uncertainty. International Journal of Management and Decision Making, 2021, 20, 308.	0.1	1
189	Interval type-2 fuzzy least-squares estimation to formulate a regression model based on a new outlierÂdetection method using a new distance. Computational and Applied Mathematics, 2021, 40, 1.	1.0	1
190	Revenue Malmquist productivity index and application in bank branch. International Mathematical Forum, 0, , 1233-1247.	0.2	1
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