

Chiang Kao

List of Publications by Year in descending order

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103
papers

6,420
citations

94433

37
h-index

69250

77
g-index

108
all docs

108
docs citations

108
times ranked

2270
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficiency decomposition in two-stage data envelopment analysis: An application to non-life insurance companies in Taiwan. <i>European Journal of Operational Research</i> , 2008, 185, 418-429.	5.7	1,031
2	Network data envelopment analysis: A review. <i>European Journal of Operational Research</i> , 2014, 239, 1-16.	5.7	472
3	Efficiency decomposition in network data envelopment analysis: A relational model. <i>European Journal of Operational Research</i> , 2009, 192, 949-962.	5.7	434
4	Fuzzy efficiency measures in data envelopment analysis. <i>Fuzzy Sets and Systems</i> , 2000, 113, 427-437.	2.7	382
5	Efficiency measurement for parallel production systems. <i>European Journal of Operational Research</i> , 2009, 196, 1107-1112.	5.7	260
6	Efficiency measurement for network systems: IT impact on firm performance. <i>Decision Support Systems</i> , 2010, 48, 437-446.	5.9	258
7	Efficiency analysis of university departments: An empirical study. <i>Omega</i> , 2008, 36, 653-664.	5.9	185
8	Predicting bank performance with financial forecasts: A case of Taiwan commercial banks. <i>Journal of Banking and Finance</i> , 2004, 28, 2353-2368.	2.9	155
9	Network DEA pitfalls: Divisional efficiency and frontier projection under general network structures. <i>European Journal of Operational Research</i> , 2013, 226, 507-515.	5.7	153
10	Least-squares estimates in fuzzy regression analysis. <i>European Journal of Operational Research</i> , 2003, 148, 426-435.	5.7	138
11	Fractional programming approach to fuzzy weighted average. <i>Fuzzy Sets and Systems</i> , 2001, 120, 435-444.	2.7	137
12	Interval efficiency measures in data envelopment analysis with imprecise data. <i>European Journal of Operational Research</i> , 2006, 174, 1087-1099.	5.7	125
13	Multi-period efficiency and Malmquist productivity index in two-stage production systems. <i>European Journal of Operational Research</i> , 2014, 232, 512-521.	5.7	123
14	Dynamic data envelopment analysis: A relational analysis. <i>European Journal of Operational Research</i> , 2013, 227, 325-330.	5.7	117
15	A single-period inventory model with fuzzy demand. <i>Computers and Mathematics With Applications</i> , 2002, 43, 841-848.	2.7	115
16	Fuzzy measures for correlation coefficient of fuzzy numbers. <i>Fuzzy Sets and Systems</i> , 2002, 128, 267-275.	2.7	108
17	Efficiency decomposition in network data envelopment analysis with slacks-based measures. <i>Omega</i> , 2014, 45, 1-6.	5.9	108
18	Stochastic data envelopment analysis in measuring the efficiency of Taiwan commercial banks. <i>European Journal of Operational Research</i> , 2009, 196, 312-322.	5.7	105

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19	Malmquist productivity index based on common-weights DEA: The case of Taiwan forests after reorganization. <i>Omega</i> , 2010, 38, 484-491.	5.9	103
20	Efficiency decomposition for general multi-stage systems in data envelopment analysis. <i>European Journal of Operational Research</i> , 2014, 232, 117-124.	5.7	103
21	Multi-period efficiency measurement in data envelopment analysis: The case of Taiwanese commercial banks. <i>Omega</i> , 2014, 47, 90-98.	5.9	101
22	Decomposition of technical and scale efficiencies in two-stage production systems. <i>European Journal of Operational Research</i> , 2011, 211, 515-519.	5.7	94
23	A mathematical programming approach to fuzzy efficiency ranking. <i>International Journal of Production Economics</i> , 2003, 86, 145-154.	8.9	89
24	A fuzzy linear regression model with better explanatory power. <i>Fuzzy Sets and Systems</i> , 2002, 126, 401-409.	2.7	84
25	Efficiencies of two-stage systems with fuzzy data. <i>Fuzzy Sets and Systems</i> , 2011, 176, 20-35.	2.7	81
26	Cross efficiency measurement and decomposition in two basic network systems. <i>Omega</i> , 2019, 83, 70-79.	5.9	74
27	Parametric programming to the analysis of fuzzy queues. <i>Fuzzy Sets and Systems</i> , 1999, 107, 93-100.	2.7	71
28	Measuring the national competitiveness of Southeast Asian countries. <i>European Journal of Operational Research</i> , 2008, 187, 613-628.	5.7	68
29	Efficiency decomposition and aggregation in network data envelopment analysis. <i>European Journal of Operational Research</i> , 2016, 255, 778-786.	5.7	59
30	A classification of slacks-based efficiency measures in network data envelopment analysis with an analysis of the properties possessed. <i>European Journal of Operational Research</i> , 2018, 270, 1109-1121.	5.7	59
31	Network Data Envelopment Analysis. <i>Profiles in Operations Research</i> , 2017, , .	0.4	57
32	Efficiency of parallel production systems with fuzzy data. <i>Fuzzy Sets and Systems</i> , 2012, 198, 83-98.	2.7	54
33	Evaluation of junior colleges of technology: The Taiwan case. <i>European Journal of Operational Research</i> , 1994, 72, 43-51.	5.7	44
34	Lot size-reorder point inventory model with fuzzy demands. <i>Computers and Mathematics With Applications</i> , 2002, 43, 1291-1302.	2.7	42
35	An evaluation of research performance in management of 168 Taiwan universities. <i>Scientometrics</i> , 2009, 78, 261-277.	3.0	41
36	Matrix games with interval data. <i>Computers and Industrial Engineering</i> , 2009, 56, 1697-1700.	6.3	40

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37	Efficiency measurement for hierarchical network systems. <i>Omega</i> , 2015, 51, 121-127.	5.9	40
38	Qualitative factors in data envelopment analysis: A fuzzy number approach. <i>European Journal of Operational Research</i> , 2011, 211, 586-593.	5.7	39
39	Efficiency measurement and frontier projection identification for general two-stage systems in data envelopment analysis. <i>European Journal of Operational Research</i> , 2017, 261, 679-689.	5.7	39
40	Competitiveness of manufacturing firms: an application of fuzzy weighted average. <i>IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans</i> , 1999, 29, 661-667.	2.9	35
41	Solution of fuzzy matrix games: An application of the extension principle. <i>International Journal of Intelligent Systems</i> , 2007, 22, 891-903.	5.7	35
42	DATA ENVELOPMENT ANALYSIS WITH IMPRECISE DATA: AN APPLICATION OF TAIWAN MACHINERY FIRMS. <i>International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems</i> , 2005, 13, 225-240.	1.9	30
43	A linear formulation of the two-level DEA model. <i>Omega</i> , 2008, 36, 958-962.	5.9	29
44	Efficiency improvement in data envelopment analysis. <i>European Journal of Operational Research</i> , 1994, 73, 487-494.	5.7	27
45	Management performance: An empirical study of the manufacturing companies in Taiwan. <i>Omega</i> , 2007, 35, 152-160.	5.9	26
46	Measurement and decomposition of the Malmquist productivity index for parallel production systems. <i>Omega</i> , 2017, 67, 54-59.	5.9	24
47	Measuring performance improvement of Taiwanese commercial banks under uncertainty. <i>European Journal of Operational Research</i> , 2014, 235, 755-764.	5.7	21
48	Decomposition of slacks-based efficiency measures in network data envelopment analysis. <i>European Journal of Operational Research</i> , 2020, 283, 588-600.	5.7	21
49	Stochastic efficiency measures for production units with correlated data. <i>European Journal of Operational Research</i> , 2019, 273, 278-287.	5.7	19
50	Inefficiency identification for closed series production systems. <i>European Journal of Operational Research</i> , 2019, 275, 599-607.	5.7	17
51	Entropy for fuzzy regression analysis. <i>International Journal of Systems Science</i> , 2005, 36, 869-876.	5.5	16
52	The authorship and country spread of Operation Research journals. <i>Scientometrics</i> , 2009, 78, 397-407.	3.0	16
53	A parallel production frontiers approach for intertemporal efficiency analysis: The case of Taiwanese commercial banks. <i>European Journal of Operational Research</i> , 2016, 255, 411-421.	5.7	15
54	Multiplicative aggregation of division efficiencies in network data envelopment analysis. <i>European Journal of Operational Research</i> , 2018, 270, 328-336.	5.7	15

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55	Measuring efficiency in a general production possibility set allowing for negative data. European Journal of Operational Research, 2020, 282, 980-988.	5.7	15
56	A Random-number Generator for Microcomputers. Journal of the Operational Research Society, 1989, 40, 687-691.	3.4	14
57	Ranking Taiwanese management journals: A case study. Scientometrics, 2008, 76, 95-115.	3.0	14
58	Improving productivity via technology and management. International Journal of Systems Science, 1996, 27, 315-322.	5.5	13
59	Measuring the effects of undesirable outputs on the efficiency of production units. European Journal of Operational Research, 2021, 292, 996-1003.	5.7	13
60	Knowledge-based approach to the optimal dock arrangement. International Journal of Systems Science, 1990, 21, 2209-2215.	5.5	12
61	Ranking University Libraries with A Posteriori Weights. Libri, 2003, 53, .	0.8	12
62	The authorship and internationality of Industrial Engineering journals. Scientometrics, 2009, 81, 123-136.	3.0	12
63	Group decision making in data envelopment analysis: A robot selection application. European Journal of Operational Research, 2022, 297, 592-599.	5.7	12
64	Closest targets in the slacks-based measure of efficiency for production units with multi-period data. European Journal of Operational Research, 2022, 297, 1042-1054.	5.7	11
65	Fuzzy Data Standardization. IEEE Transactions on Fuzzy Systems, 2010, 18, 745-754.	9.8	10
66	Determination of optimal shipping policy by inventory theory. International Journal of Systems Science, 1993, 24, 1265-1273.	5.5	9
67	Some properties of Pareto efficiency under the framework of data envelopment analysis. International Journal of Systems Science, 1995, 26, 1549-1558.	5.5	9
68	DISCRETE TIME PARALLEL-MACHINE SCHEDULING: A CASE OF SHIP SCHEDULING. Engineering Optimization, 1996, 26, 287-294.	2.6	9
69	An exhaustive analysis of prime modulus multiplicative congruential random number generators with modulus smaller than 2^{15} . Journal of Statistical Computation and Simulation, 1996, 54, 29-35.	1.2	8
70	An integration model for manpower forecasting. Journal of Forecasting, 1996, 15, 543-548.	2.8	8
71	ROBUST TOLERANCE ALLOCATION USING STOCHASTIC PROGRAMMING. Engineering Optimization, 1998, 30, 333-350.	2.6	8
72	Efficiency evaluation in the presence of undesirable outputs: the most favorable shadow price approach. Annals of Operations Research, 2019, 278, 5-16.	4.1	8

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73	A maximum slacks-based measure of efficiency for closed series production systems. Omega, 2022, 106, 102525.	5.9	8
74	Data Envelopment Analysis With Missing Data. , 2007, , 291-304.		7
75	Network Data Envelopment Analysis with Fuzzy Data. Studies in Fuzziness and Soft Computing, 2014, , 191-206.	0.8	7
76	Scheduling ship discharging via knowledge transformed heuristic evaluation function. International Journal of Systems Science, 1992, 23, 631-639.	5.5	6
77	Symmetry property of multiplicative congruential random number generator in chi-square test. International Journal of Computer Mathematics, 1995, 55, 113-118.	1.8	6
78	Optimal expansion paths for hospitals of different types: Viewpoint of scope economies and evidence from Chinese hospitals. European Journal of Operational Research, 2021, 289, 628-638.	5.7	6
79	Simulation response optimization via direct conjugate direction method. Computers and Operations Research, 2003, 30, 541-552.	4.0	5
80	Assessing improvement in management research in Taiwan. Scientometrics, 2012, 92, 75-87.	3.0	5
81	Predicting project approvals: A case of grants from the National Science Council of Taiwan. Omega, 2012, 40, 89-95.	5.9	5
82	Stochastic efficiencies of network production systems with correlated stochastic data: the case of Taiwanese commercial banks. Annals of Operations Research, 2022, 315, 1151-1174.	4.1	5
83	Measuring efficiency in a general production possibility set allowing for negative data: An extension and a focus on returns to scale. European Journal of Operational Research, 2022, 296, 267-276.	5.7	5
84	A SEQUENTIAL QUADRATIC PROGRAMMING ALGORITHM UTILIZING QR MATRIX FACTORIZATION. Engineering Optimization, 1994, 22, 283-296.	2.6	4
85	Evaluation and improvement of e-government: the case of European countries. , 2015, , .		4
86	A multicriteria approach for material yard planning. Journal of Multi-Criteria Decision Analysis, 1997, 6, 272-282.	1.9	3
87	Efficiency Decomposition in Network Data Envelopment Analysis. Profiles in Operations Research, 2014, , 55-77.	0.4	3
88	A model for measuring productive efficiency. Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers, Series A/Chung-kuo Kung Ch'eng Hsueh K'an, 1986, 9, 251-257.	1.1	2
89	A RADIAL METHOD FOR OPTIMAL MECHANISM DESIGN. Engineering Optimization, 1992, 20, 179-186.	2.6	2
90	Most productive types of hospitals: An empirical analysis. Omega, 2021, 99, 102310.	5.9	2

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91	Performance evaluation for network systems. , 2013, , .		1
92	Productivity of Taiwan's 1000 largest companies. Journal of Industrial and Production Engineering, 2013, 30, 44-53.	3.1	1
93	A mathematical programming approach to fuzzy efficiency ranking. , 0, , .		0
94	Basic Two-Stage Systems. Profiles in Operations Research, 2017, , 207-236.	0.4	0
95	Basic Ideas in Efficiency Measurement for Network Systems. Profiles in Operations Research, 2017, , 177-206.	0.4	0
96	Parallel Systems. Profiles in Operations Research, 2017, , 309-333.	0.4	0
97	General Two-Stage Systems. Profiles in Operations Research, 2017, , 237-273.	0.4	0
98	General Multi-Stage Systems. Profiles in Operations Research, 2017, , 275-307.	0.4	0
99	Special Types of Data. Profiles in Operations Research, 2017, , 133-155.	0.4	0
100	Changes of Efficiency Over Time. Profiles in Operations Research, 2017, , 157-175.	0.4	0
101	Linear Programming with Interval Data: A Two-Level Programming Approach. Springer Optimization and Its Applications, 2013, , 63-77.	0.9	0
102	Scale Efficiency Measurement in Two-Stage Production Systems. Profiles in Operations Research, 2014, , 119-135.	0.4	0
103	Most Favorable Russell Measures of Efficiency: Properties and Measurement. Lecture Notes in Computer Science, 2020, , 424-439.	1.3	0