Chiang Kao

List of Publications by Year
in descending order

103	6,420	108046 37	78623 77
papers	citations	h-index	g-index

108	108	108	2534
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Stochastic efficiencies of network production systems with correlated stochastic data: the case of Taiwanese commercial banks. Annals of Operations Research, 2022, 315, 1151-1174.	2.6	5
2	Group decision making in data envelopment analysis: A robot selection application. European Journal of Operational Research, 2022, 297, 592-599.	3.5	12
3	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.	3.5	11
4	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.	3.5	5
5	A maximum slacks-based measure of efficiency for closed series production systems. Omega, 2022, 106, 102525.	3.6	8
6	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.	3.5	6
7	Most productive types of hospitals: An empirical analysis. Omega, 2021, 99, 102310.	3.6	2
8	Measuring the effects of undesirable outputs on the efficiency of production units. European Journal of Operational Research, 2021, 292, 996-1003.	3.5	13
9	Measuring efficiency in a general production possibility set allowing for negative data. European Journal of Operational Research, 2020, 282, 980-988.	3.5	15
10	Decomposition of slacks-based efficiency measures in network data envelopment analysis. European Journal of Operational Research, 2020, 283, 588-600.	3.5	21
11	Most Favorable Russell Measures of Efficiency: Properties and Measurement. Lecture Notes in Computer Science, 2020, , 424-439.	1.0	0
12	Stochastic efficiency measures for production units with correlated data. European Journal of Operational Research, 2019, 273, 278-287.	3.5	19
13	Inefficiency identification for closed series production systems. European Journal of Operational Research, 2019, 275, 599-607.	3.5	17
14	Cross efficiency measurement and decomposition in two basic network systems. Omega, 2019, 83, 70-79.	3.6	74
15	Efficiency evaluation in the presence of undesirable outputs: the most favorable shadow price approach. Annals of Operations Research, 2019, 278, 5-16.	2.6	8
16	A classification of slacks-based efficiency measures in network data envelopment analysis with an analysis of the properties possessed. European Journal of Operational Research, 2018, 270, 1109-1121.	3.5	59
17	Multiplicative aggregation of division efficiencies in network data envelopment analysis. European Journal of Operational Research, 2018, 270, 328-336.	3.5	15
18	Measurement and decomposition of the Malmquist productivity index for parallel production systems. Omega, 2017, 67, 54-59.	3.6	24

#	ARTICLE	IF	CITATIONS
19	Efficiency measurement and frontier projection identification for general two-stage systems in data envelopment analysis. European Journal of Operational Research, 2017, 261, 679-689.	3.5	39
20	Network Data Envelopment Analysis. Profiles in Operations Research, 2017, , .	0.3	57
21	Basic Two-Stage Systems. Profiles in Operations Research, 2017, , 207-236.	0.3	0
22	Basic Ideas in Efficiency Measurement for Network Systems. Profiles in Operations Research, 2017, , 177-206.	0.3	0
23	Parallel Systems. Profiles in Operations Research, 2017, , 309-333.	0.3	0
24	General Two-Stage Systems. Profiles in Operations Research, 2017, , 237-273.	0.3	0
25	General Multi-Stage Systems. Profiles in Operations Research, 2017, , 275-307.	0.3	0
26	Special Types of Data. Profiles in Operations Research, 2017, , 133-155.	0.3	0
27	Changes of Efficiency Over Time. Profiles in Operations Research, 2017, , 157-175.	0.3	0
28	A parallel production frontiers approach for intertemporal efficiency analysis: The case of Taiwanese commercial banks. European Journal of Operational Research, 2016, 255, 411-421.	3.5	15
29	Efficiency decomposition and aggregation in network data envelopment analysis. European Journal of Operational Research, 2016, 255, 778-786.	3.5	59
30	Evaluation and improvement of e-government: the case of European countries. , 2015, , .		4
31	Efficiency measurement for hierarchical network systems. Omega, 2015, 51, 121-127.	3.6	40
32	Multi-period efficiency measurement in data envelopment analysis: The case of Taiwanese commercial banks. Omega, 2014, 47, 90-98.	3.6	101
33	Efficiency decomposition for general multi-stage systems in data envelopment analysis. European Journal of Operational Research, 2014, 232, 117-124.	3.5	103
34	Network data envelopment analysis: A review. European Journal of Operational Research, 2014, 239, 1-16.	3.5	472
35	Measuring performance improvement of Taiwanese commercial banks under uncertainty. European Journal of Operational Research, 2014, 235, 755-764.	3.5	21
36	Efficiency decomposition in network data envelopment analysis with slacks-based measures. Omega, 2014, 45, 1-6.	3.6	108

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37	Multi-period efficiency and Malmquist productivity index in two-stage production systems. European Journal of Operational Research, 2014, 232, 512-521.	3.5	123
38	Efficiency Decomposition in Network Data Envelopment Analysis. Profiles in Operations Research, 2014, , 55-77.	0.3	3
39	Network Data Envelopment Analysis with Fuzzy Data. Studies in Fuzziness and Soft Computing, 2014, , 191-206.	0.6	7
40	Scale Efficiency Measurement in Two-Stage Production Systems. Profiles in Operations Research, 2014, , 119-135.	0.3	0
41	Performance evaluation for network systems. , 2013, , .		1
42	Dynamic data envelopment analysis: A relational analysis. European Journal of Operational Research, 2013, 227, 325-330.	3.5	117
43	Network DEA pitfalls: Divisional efficiency and frontier projection under general network structures. European Journal of Operational Research, 2013, 226, 507-515.	3.5	153
44	Productivity of Taiwanâ€™s 1000 largest companies. Journal of Industrial and Production Engineering, 2013, 30, 44-53.	2.1	1
45	Linear Programming with Interval Data: A Two-Level Programming Approach. Springer Optimization and Its Applications, 2013, , 63-77.	0.6	0
46	Assessing improvement in management research in Taiwan. Scientometrics, 2012, 92, 75-87.	1.6	5
47	Efficiency of parallel production systems with fuzzy data. Fuzzy Sets and Systems, 2012, 198, 83-98.	1.6	54
48	Predicting project approvals: A case of grants from the National Science Council of Taiwan. Omega, 2012, 40, 89-95.	3.6	5
49	Qualitative factors in data envelopment analysis: A fuzzy number approach. European Journal of Operational Research, 2011, 211, 586-593.	3.5	39
50	Decomposition of technical and scale efficiencies in two-stage production systems. European Journal of Operational Research, 2011, 211, 515-519.	3.5	94
51	Efficiencies of two-stage systems with fuzzy data. Fuzzy Sets and Systems, 2011, 176, 20-35.	1.6	81
52	Malmquist productivity index based on common-weights DEA: The case of Taiwan forests after reorganization. Omega, 2010, 38, 484-491.	3.6	103
53	Efficiency measurement for network systems: IT impact on firm performance. Decision Support Systems, 2010, 48, 437-446.	3.5	258
54	Fuzzy Data Standardization. IEEE Transactions on Fuzzy Systems, 2010, 18, 745-754.	6.5	10

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55	Stochastic data envelopment analysis in measuring the efficiency of Taiwan commercial banks. European Journal of Operational Research, 2009, 196, 312-322.	3.5	105
56	Efficiency measurement for parallel production systems. European Journal of Operational Research, 2009, 196, 1107-1112.	3.5	260
57	An evaluation of research performance in management of 168 Taiwan universities. Scientometrics, 2009, 78, 261-277.	1.6	41
58	The authorship and country spread of Operation Research journals. Scientometrics, 2009, 78, 397-407.	1.6	16
59	The authorship and internationality of Industrial Engineering journals. Scientometrics, 2009, 81, 123-136.	1.6	12
60	Efficiency decomposition in network data envelopment analysis: A relational model. European Journal of Operational Research, 2009, 192, 949-962.	3.5	434
61	Matrix games with interval data. Computers and Industrial Engineering, 2009, 56, 1697-1700.	3.4	40
62	Efficiency decomposition in two-stage data envelopment analysis: An application to non-life insurance companies in Taiwan. European Journal of Operational Research, 2008, 185, 418-429.	3.5	1,031
63	Ranking Taiwanese management journals: A case study. Scientometrics, 2008, 76, 95-115.	1.6	14
64	Measuring the national competitiveness of Southeast Asian countries. European Journal of Operational Research, 2008, 187, 613-628.	3.5	68
65	Efficiency analysis of university departments: An empirical studyâ˜†. Omega, 2008, 36, 653-664.	3.6	185
66	A linear formulation of the two-level DEA model. Omega, 2008, 36, 958-962.	3.6	29
67	Data Envelopment Analysis With Missing Data. , 2007, , 291-304.		7
68	Solution of fuzzy matrix games: An application of the extension principle. International Journal of Intelligent Systems, 2007, 22, 891-903.	3.3	35
69	Management performance: An empirical study of the manufacturing companies in Taiwan. Omega, 2007, 35, 152-160.	3.6	26
70	Interval efficiency measures in data envelopment analysis with imprecise data. European Journal of Operational Research, 2006, 174, 1087-1099.	3.5	125
71	Entropy for fuzzy regression analysis. International Journal of Systems Science, 2005, 36, 869-876.	3.7	16
72	DATA ENVELOPMENT ANALYSIS WITH IMPRECISE DATA: AN APPLICATION OF TAIWAN MACHINERY FIRMS. International Journal of Uncertainty, Fuzziness and Knowlege-Based Systems, 2005, 13, 225-240.	0.9	30

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73	Predicting bank performance with financial forecasts: A case of Taiwan commercial banks. Journal of Banking and Finance, 2004, 28, 2353-2368.	1.4	155
74	Simulation response optimization via direct conjugate direction method. Computers and Operations Research, 2003, 30, 541-552.	2.4	5
75	Least-squares estimates in fuzzy regression analysis. European Journal of Operational Research, 2003, 148, 426-435.	3.5	138
76	A mathematical programming approach to fuzzy efficiency ranking. International Journal of Production Economics, 2003, 86, 145-154.	5.1	89
77	Ranking University Libraries with A Posteriori Weights. Libri, 2003, 53, .	0.5	12
78	Lot size-reorder point inventory model with fuzzy demands. Computers and Mathematics With Applications, 2002, 43, 1291-1302.	1.4	42
79	A fuzzy linear regression model with better explanatory power. Fuzzy Sets and Systems, 2002, 126, 401-409.	1.6	84
80	Fuzzy measures for correlation coefficient of fuzzy numbers. Fuzzy Sets and Systems, 2002, 128, 267-275.	1.6	108
81	A single-period inventory model with fuzzy demand. Computers and Mathematics With Applications, 2002, 43, 841-848.	1.4	115
82	Fractional programming approach to fuzzy weighted average. Fuzzy Sets and Systems, 2001, 120, 435-444.	1.6	137
83	Fuzzy efficiency measures in data envelopment analysis. Fuzzy Sets and Systems, 2000, 113, 427-437.	1.6	382
84	Parametric programming to the analysis of fuzzy queues. Fuzzy Sets and Systems, 1999, 107, 93-100.	1.6	71
85	Competitiveness of manufacturing firms: an application of fuzzy weighted average. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 1999, 29, 661-667.	3.4	35
86	ROBUST TOLERANCE ALLOCATION USING STOCHASTIC PROGRAMMING. Engineering Optimization, 1998, 30, 333-350.	1.5	8
87	A multicriteria approach for material yard planning. Journal of Multi-Criteria Decision Analysis, 1997, 6, 272-282.	1.0	3
88	An exhaustive analysis of prime modulus multiplicative congruential random number generators with modulus smaller than 2¹⁵. Journal of Statistical Computation and Simulation, 1996, 54, 29-35.	0.7	8
89	DISCRETE TIME PARALLEL-MACHINE SCHEDULING: A CASE OF SHIP SCHEDULING. Engineering Optimization, 1996, 26, 287-294.	1.5	9
90	An integration model for manpower forecasting. Journal of Forecasting, 1996, 15, 543-548.	1.6	8

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91	Improving productivity via technology and management. International Journal of Systems Science, 1996, 27, 315-322.	3.7	13
92	Some properties of Pareto efficiency under the framework of data envelopment analysis. International Journal of Systems Science, 1995, 26, 1549-1558.	3.7	9
93	Symmetry property of multiplicative congruential random number generator in chi-square test. International Journal of Computer Mathematics, 1995, 55, 113-118.	1.0	6
94	A SEQUENTIAL QUADRATIC PROGRAMMING ALGORITHM UTILIZING QR MATRIX FACTORIZATION. Engineering Optimization, 1994, 22, 283-296.	1.5	4
95	Efficiency improvement in data envelopment analysis. European Journal of Operational Research, 1994, 73, 487-494.	3.5	27
96	Evaluation of junior colleges of technology: The Taiwan case. European Journal of Operational Research, 1994, 72, 43-51.	3.5	44
97	Determination of optimal shipping policy by inventory theory. International Journal of Systems Science, 1993, 24, 1265-1273.	3.7	9
98	Scheduling ship discharging via knowledge transformed heuristic evaluation function. International Journal of Systems Science, 1992, 23, 631-639.	3.7	6
99	A RADIAL METHOD FOR OPTIMAL MECHANISM DESIGN. Engineering Optimization, 1992, 20, 179-186.	1.5	2
100	Knowledge-based approach to the optimal dock arrangement. International Journal of Systems Science, 1990, 21, 2209-2215.	3.7	12
101	A Random-number Generator for Microcomputers. Journal of the Operational Research Society, 1989, 40, 687-691.	2.1	14
102	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 Hsuch K'an, 1986, 9, 251-257.	0.6	2
103	A mathematical programming approach to fuzzy efficiency ranking. , 0, , .		0