Kristiaan Hj Kerstens

List of Publications by Year
in descending order

81 papers	3,047 citations	186265 28 h-index	175258 52 g-index
86 all docs	86 docs citations	86 times ranked	1283 citing authors

#	Article	IF	Citations
1	Cost efficiency of Belgian local governments: A comparative analysis of FDH, DEA, and econometric approaches. Regional Science and Urban Economics, 1996, 26, 145-170.	2.6	291
2	Public transit performance: What does one learn from frontier studies?. Transport Reviews, 2002, 22, 1-38.	8.8	183
3	Mean-Variance-Skewness Portfolio Performance Gauging: A General Shortage Function and Dual Approach. Management Science, 2007, 53, 135-149.	4.1	163
4	Luenberger and Malmquist Productivity Indices: Theoretical Comparisons and Empirical Illustration. Bulletin of Economic Research, 2003, 55, 391-405.	1.1	136
5	Explaining differences in productive efficiency: An application to Belgian municipalities. Public Choice, 1994, 80, 339-358.	1.7	134
6	Estimating returns to scale using non-parametric deterministic technologies: A new method based on goodness-of-fit. European Journal of Operational Research, 1999, 113, 206-214.	5.7	125
7	Non-convex Technologies and Cost Functions: Definitions, Duality and Nonparametric Tests of Convexity. Journal of Economics/ Zeitschrift Fur Nationalokonomie, 2004, 81, 155-192.	0.7	103
8	A Luenberger-Hicks-Moorsteen productivity indicator: its relation to the Hicks-Moorsteen productivity index and the Luenberger productivity indicator. Economic Theory, 2004, 23, 925-939.	0.9	93
9	Shortâ€•and Longâ€Run Credit Constraints in French Agriculture: A Directional Distance Function Framework Using Expenditureâ€Constrained Profit Functions. American Journal of Agricultural Economics, 2006, 88, 351-364.	4.3	89
10	Single-Period Markowitz Portfolio Selection, Performance Gauging, and Duality: A Variation on the Luenberger Shortage Function. Journal of Optimization Theory and Applications, 2004, 120, 1-27.	1.5	82
11	Infeasibility and Directional Distance Functions withÂApplication to the Determinateness ofÂtheÂLuenberger Productivity Indicator. Journal of Optimization Theory and Applications, 2009, 141, 55-73.	1.5	81
12	Radial and nonradial measures of technical efficiency: An empirical illustration for Belgian local governments using an FDH reference technology. Journal of Productivity Analysis, 1996, 7, 41-62.	1.6	78
13	Comparing Malmquist and Hicksâ€"Moorsteen productivity indices: Exploring the impact of unbalanced vs. balanced panel data. European Journal of Operational Research, 2014, 233, 749-758.	5.7	72
14	Multi-horizon Markowitz portfolio performance appraisals: A general approachâ˜†. Omega, 2009, 37, 50-62.	5.9	68
15	Technical efficiency measurement and explanation of French urban transit companies. Transportation Research, Part A: Policy and Practice, 1996, 30, 431-452.	4.2	67
16	Negative data in DEA: a simple proportional distance function approach. Journal of the Operational Research Society, 2011, 62, 1413-1419.	3.4	63
17	Metatechnology frontier and convexity: A restatement. European Journal of Operational Research, 2019, 275, 780-792.	5.7	63
18	Bank productivity and performance groups: A decomposition approach based upon the Luenberger productivity indicator. European Journal of Operational Research, 2011, 211, 630-641.	5.7	62

#	Article	IF	Citations
19	Non-parametric frontier estimates of mutual fund performance using C- and L-moments: Some specification tests. Journal of Banking and Finance, 2011, 35, 1190-1201.	2.9	51
20	Portfolio selection in multidimensional general and partial moment space. Journal of Economic Dynamics and Control, 2010, 34, 636-656.	1.6	45
21	Empirical surveys of frontier applications: a metaâ€review. International Transactions in Operational Research, 2020, 27, 709-738.	2.7	44
22	Geometric representation of the meanâ€"varianceâ€"skewness portfolio frontier based upon the shortage function. European Journal of Operational Research, 2011, 210, 81-94.	5.7	43
23	The choice of a technical efficiency measure on the free disposal hull reference technology: A comparison using US banking data. European Journal of Operational Research, 1998, 105, 427-446.	5.7	41
24	The Luenberger productivity indicator: An economic specification leading to infeasibilities. Economic Modelling, 2009, 26, 597-600.	3.8	40
25	THE HICKS-MOORSTEEN PRODUCTIVITY INDEX SATISFIES THE DETERMINATENESS AXIOM. Manchester School, 2011, 79, 765-775.	0.9	39
26	Comparing Luenberger and Luenberger-Hicks-Moorsteen productivity indicators: How well is total factor productivity approximated?. International Journal of Production Economics, 2018, 195, 311-318.	8.9	35
27	Portfolio selection with skewness: A comparison of methods and a generalized one fund result. European Journal of Operational Research, 2013, 230, 412-421.	5.7	33
28	The Malmquist Productivity Index and Plant Capacity Utilization. Scandinavian Journal of Economics, 2000, 102, 303-310.	1.4	31
29	Total factor productivity growth and convergence in the petroleum industry: Empirical analysis testing for convexity. International Journal of Production Economics, 2012, 139, 196-206.	8.9	30
30	PRODUCTIVITY AND EFFICIENCY ANALYSIS SOFTWARE: AN EXPLORATORY BIBLIOGRAPHICAL SURVEY OF THE OPTIONS. Journal of Economic Surveys, 2019, 33, 85-100.	6.6	29
31	Title is missing!. Journal of Productivity Analysis, 2000, 14, 267-274.	1.6	28
32	Metafrontier productivity indices: Questioning the common convexification strategy. European Journal of Operational Research, 2020, 283, 737-747.	5.7	28
33	Convex and nonconvex input-oriented technical and economic capacity measures: An empirical comparison. European Journal of Operational Research, 2019, 276, 699-709.	5.7	27
34	Technology-based total factor productivity and benchmarking: New proposals and an application. Omega, 2011, 39, 608-619.	5.9	26
35	Global and local scale characteristics in convex and nonconvex nonparametric technologies: A first empirical exploration. European Journal of Operational Research, 2017, 259, 576-586.	5.7	26
36	Radial and nonradial static efficiency decompositions: a focus on congestion measurement. Transportation Research Part B: Methodological, 1998, 32, 299-312.	5.9	25

#	Article	IF	Citations
37	Portfolio performance gauging in discrete time using a Luenberger productivity indicator. Journal of Banking and Finance, 2010, 34, 1899-1910.	2.9	25
38	A note on a variant of radial measure capable of dealing with negative inputs and outputs in DEA. European Journal of Operational Research, 2014, 234, 341-342.	5.7	24
39	A New Inputâ€Oriented Plant Capacity Notion: Definition and Empirical Comparison. Pacific Economic Review, 2017, 22, 720-739.	1.4	24
40	Returns to growth in a nonparametric <scp>DEA</scp> approach. International Transactions in Operational Research, 2012, 19, 463-486.	2.7	23
41	A short-run Johansen industry model for common-pool resources: planning a fishery's industrial capacity to curb overfishing. European Review of Agricultural Economics, 2006, 33, 361-389.	3.1	22
42	SOLUTION METHODS FOR NONCONVEX FREE DISPOSAL HULL MODELS: A REVIEW AND SOME CRITICAL COMMENTS. Asia-Pacific Journal of Operational Research, 2014, 31, 1450010.	1.3	22
43	Frontier-based vs. traditional mutual fund ratings: A first backtesting analysis. European Journal of Operational Research, 2015, 242, 332-342.	5.7	22
44	Short- and long-run plant capacity notions: Definitions and comparison. European Journal of Operational Research, 2019, 275, 387-397.	5.7	22
45	Decomposing Technical Efficiency and Effectiveness of French Urban Transport. Annales D'Economie Et De Statistique, 1999, , 129.	0.2	20
46	EXACT RELATIONS BETWEEN FOUR DEFINITIONS OF PRODUCTIVITY INDICES AND INDICATORS. Bulletin of Economic Research, 2012, 64, 265-274.	1.1	20
47	Transit costs and cost efficiency: Bootstrapping non-parametric frontiers. Research in Transportation Economics, 2008, 23, 53-64.	4.1	18
48	Cost functions are nonconvex in the outputs when the technology is nonconvex: convexification is not harmless. Annals of Operations Research, 2021, 305, 81-106.	4.1	16
49	Input, output and graph technical efficiency measures on non-convex FDH models with various scaling laws: An integrated approach based upon implicit enumeration algorithms. Top, 2006, 14, 135-166.	1.6	15
50	INCENTIVE REGULATION AND THE ROLE OF CONVEXITY IN BENCHMARKING ELECTRICITY DISTRIBUTION: ECONOMISTS VERSUS ENGINEERS. Annals of Public and Cooperative Economics, 2008, 79, 227-248.	2.4	14
51	Using COVID-19 mortality to select among hospital plant capacity models: An exploratory empirical application to Hubei province. Technological Forecasting and Social Change, 2021, 166, 120535.	11.6	13
52	Benchmarking mean-variance portfolios using a shortage function: the choice of direction vector affects rankings!. Journal of the Operational Research Society, 2012, 63, 1199-1212.	3.4	12
53	Enumeration algorithms for FDH directional distance functions under different returns to scale assumptions. Annals of Operations Research, 2018, 271, 1067-1078.	4.1	12
54	Methodological Reflections on the Short-Run Johansen Industry Model in Relation to Capacity Management. Marine Resource Economics, 2005, 20, 425-443.	2.0	12

#	Article	IF	Citations
55	The Performance of Bus-Transit Operators. Handbooks in Transport, 2007, , 693-714.	0.1	11
56	Temporal technical and profit efficiency measurement: Definitions, duality and aggregation results. International Journal of Production Economics, 2006, 103, 48-63.	8.9	10
57	Hedonic price function estimation in economics andÂmarketing: revisiting Lancasterâ€™s issue ofÂâ€œnoncombinableâ€•goods. Annals of Operations Research, 2010, 173, 145-161.	4.1	10
58	Static efficiency decompositions and capacity utilization: integrating economic and technical capacity notions. Applied Economics, 2012, 44, 4125-4141.	2.2	10
59	Ecological Benchmarking to Explore Alternative Fishing Schemes to Protect Endangered Species by Substitution: The Danish Demersal Fishery in the North Sea. Environmental and Resource Economics, 2009, 43, 573-590.	3.2	9
60	Tangency capacity notions based upon the profit and cost functions: A non-parametric approach and a general comparison. Economic Modelling, 2010, 27, 1156-1166.	3.8	8
61	Testing general and special FÃ¤re-Primont indices: A proposal for public and private sector synthetic indices of European regional expenditures and tourism. European Journal of Operational Research, 2018, 271, 756-768.	5.7	8
62	A new criterion for technical efficiency measures: non-monotonicity across dimensions axioms. Managerial and Decision Economics, 1999, 20, 45-59.	2.5	7
63	Congestion in production correspondences. Journal of Economics/ Zeitschrift Fur Nationalokonomie, 2016, 119, 65-90.	0.7	7
64	Hypercongestion in production correspondences: an empirical exploration. Applied Economics, 2018, 50, 2938-2956.	2.2	6
65	Malmquist productivity indices and plant capacity utilisation: new proposals and empirical application. Annals of Operations Research, 2022, 315, 221-250.	4.1	6
66	Estimating scale economies in non-convex production models. Journal of the Operational Research Society, 2017, 68, 1442-1451.	3.4	5
67	Multi-Time and Multi-Moment Nonparametric Frontier-Based Fund Rating: Proposal and Buy-and-Hold Backtesting Strategy. Omega, 2022, 113, 102718.	5.9	5
68	Comparing efficiency across markets: An extension and critique of the methodology. European Journal of Operational Research, 2010, 205, 719-728.	5.7	4
69	Directional measurement of technical efficiency of production: An axiomatic approach. Economic Modelling, 2011, 28, 775-781.	3.8	4
70	Plant Capacity and Attainability: Exploration and Remedies. Operations Research, 0, , .	1.9	4
71	Plant capacity notions in a non-parametric framework: a brief review and new graph or non-oriented plant capacities. Annals of Operations Research, 2020, 288, 837-860.	4.1	4
72	Applied production analysis unveiled in open peer review: introductory remarks. Journal of Productivity Analysis, 2008, 30, 1-6.	1.6	3

#	Article	IF	Citations
73	Procedures for ranking technical and cost efficient units: With a focus on nonconvexity. European Journal of Operational Research, 2022, 300, 269-281.	5.7	3
74	Generalised commensurability properties of efficiency measures: Implications for productivity indicators. European Journal of Operational Research, 2022, 303, 1481-1492.	5.7	3
75	Nonparametric cost and revenue functions under constant economies of scale: an enumeration approach for the single output or input case. International Transactions in Operational Research, 2014, 21, 619-625.	2.7	2
76	Nonconvexity in Production and Cost Functions: An Exploratory and Selective Review. , 2020, , 1-34.		2
77	Input Efficiency Measures: A Generalized, Encompassing Formulation. Operations Research, 2020, 68, 1836-1849.	1.9	1
78	Nonconvexity in Production and Cost Functions: An Exploratory and Selective Review*. , 2022, , 721-754.		1
79	Rationalisation de l'offre de soins en chirurgie. Réduction des surcapacités et réallocation sectorielle. Revue Economique, 1999, 50, 645.	0.3	0
80	Portfolio Performance Gauging in Discrete Time Using a Luenberger Productivity Indicator. SSRN Electronic Journal, 0, , .	0.4	0
81	Erratum to "Transit costs and cost efficiency: Bootstrapping non-parametric frontiers"[Research in Transport Economics 23 (2008) 53–64]. Research in Transportation Economics, 2009, 25, 67.	4.1	0