Lopold Simar

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

92 papers	10,761 citations	44 h-index	93 g-index
93 ext. papers	12,174 ext. citations	2.6 avg, IF	6.83 L-index

#	Paper	IF	Citations
92	Estimation and inference in two-stage, semi-parametric models of production processes. *Journal of Econometrics*, **2007**, 136, 31-64	2.6	1883
91	Sensitivity Analysis of Efficiency Scores: How to Bootstrap in Nonparametric Frontier Models. *Management Science*, **1998**, 44, 49-61	3.9	1259
90	A general methodology for bootstrapping in non-parametric frontier models. *Journal of Applied Statistics*, **2000**, 27, 779-802	1	665
89	Nonparametric frontier estimation: a robust approach. *Journal of Econometrics*, **2002**, 106, 1-25	2.6	614
88	Statistical Inference in Nonparametric Frontier Models: The State of the Art. *Journal of Productivity Analysis*, **2000**, 13, 49-78	1.8	564
87	Introducing Environmental Variables in Nonparametric Frontier Models: a Probabilistic Approach. *Journal of Productivity Analysis*, **2005**, 24, 93-121	1.8	419
86	Two-stage DEA: caveat emptor. *Journal of Productivity Analysis*, **2011**, 36, 205-218	1.8	393
85	Estimating and bootstrapping Malmquist indices. *European Journal of Operational Research*, **1999**, 115, 459-471	5.6	343
84	A NOTE ON THE CONVERGENCE OF NONPARAMETRIC DEA ESTIMATORS FOR PRODUCTION EFFICIENCY SCORES. *Econometric Theory*, **1998**, 14, 783-793	1.1	256
83	Non-parametric tests of returns to scale. *European Journal of Operational Research*, **2002**, 139, 115-132	5.6	251
82	Conditional nonparametric frontier models for convex and nonconvex technologies: a unifying approach. *Journal of Productivity Analysis*, **2007**, 28, 13-32	1.8	227
81	Detecting Outliers in Frontier Models: A Simple Approach. *Journal of Productivity Analysis*, **2003**, 20, 391-424	1.8	205
80	Nonparametric efficiency analysis: A multivariate conditional quantile approach. *Journal of Econometrics*, **2007**, 140, 375-400	2.6	173
79	How to measure the impact of environmental factors in a nonparametric production model. *European Journal of Operational Research*, **2012**, 223, 818-833	5.6	172
78	ASYMPTOTICS AND CONSISTENT BOOTSTRAPS FOR DEA ESTIMATORS IN NONPARAMETRIC FRONTIER MODELS. *Econometric Theory*, **2008**, 24, 1663-1697	1.1	172
77	Nonparametric stochastic frontiers: A local maximum likelihood approach. *Journal of Econometrics*, **2007**, 137, 1-27	2.6	144
76	On Testing Equality of Distributions of Technical Efficiency Scores. *Econometric Reviews*, **2006**, 25, 497-522	1.1	144

75	Optimal bandwidth selection for conditional efficiency measures: A data-driven approach. *European Journal of Operational Research*, **2010**, 201, 633-640	5.6	127
74	On Estimation of Monotone and Concave Frontier Functions. *Journal of the American Statistical Association*, **1999**, 94, 220-228	2.8	121
73	Explaining inefficiency in nonparametric production models: the state of the art. *Annals of Operations Research*, **2014**, 214, 5-30	3.2	107
72	A robust nonparametric approach to evaluate and explain the performance of mutual funds. *European Journal of Operational Research*, **2006**, 175, 516-542	5.6	101
71	Central limit theorems for conditional efficiency measures and tests of the 'separability' condition in non-parametric, two-stage models of production. *Econometrics Journal*, **2018**, 21, 170-191	2.4	95
70	Statistical Approaches for Non-parametric Frontier Models: A Guided Tour. *International Statistical Review*, **2015**, 83, 77-110	1.4	91
69	Inference by the m out of n bootstrap in nonparametric frontier models. *Journal of Productivity Analysis*, **2011**, 36, 33-53	1.8	91
68	Pitfalls of Normal-Gamma Stochastic Frontier Models. *Journal of Productivity Analysis*, **1997**, 8, 167-182	1.8	90
67	Nonparametric conditional efficiency measures: asymptotic properties. *Annals of Operations Research*, **2010**, 173, 105-122	3.2	86
66	The European university landscape: A micro characterization based on evidence from the Aquameth project. *Research Policy*, **2011**, 40, 148-164	7.5	78
65	Stochastic FDH/DEA estimators for frontier analysis. *Journal of Productivity Analysis*, **2011**, 36, 1-20	1.8	78
64	Effect of FDI and Time on Catching Up: New Insights from a Conditional Nonparametric Frontier Analysis. *Journal of Applied Econometrics*, **2015**, 30, 826-847	2.2	77
63	Directional distances and their robust versions: Computational and testing issues. *European Journal of Operational Research*, **2014**, 237, 358-369	5.6	75
62	Rankings and university performance: A conditional multidimensional approach. *European Journal of Operational Research*, **2015**, 244, 918-930	5.6	72
61	Probabilistic characterization of directional distances and their robust versions. *Journal of Econometrics*, **2012**, 166, 342-354	2.6	72
60	A general framework for frontier estimation with panel data. *Journal of Productivity Analysis*, **1996**, 7, 187-212	1.8	71
59	Statistical inference for DEA estimators of directional distances. *European Journal of Operational Research*, **2012**, 220, 853-864	5.6	68
58	Estimating a Changepoint, Boundary, or Frontier in the Presence of Observation Error. *Journal of the American Statistical Association*, **2002**, 97, 523-534	2.8	68

57	Inferences from Cross-Sectional, Stochastic Frontier Models. *Econometric Reviews*, **2009**, 29, 62-98	1.1	64
56	Aspects of statistical analysis in DEA-type frontier models. *Journal of Productivity Analysis*, **1996**, 7, 177-185	1.8	64
55	Of Course We Can Bootstrap DEA Scores! But Does It Mean Anything? Logic Trumps Wishful Thinking. *Journal of Productivity Analysis*, **1999**, 11, 93-97	1.8	61
54	TESTING RESTRICTIONS IN NONPARAMETRIC EFFICIENCY MODELS. *Communications in Statistics Part B: Simulation and Computation*, **2001**, 30, 159-184	0.6	60
53	How to improve the performances of DEA/FDH estimators in the presence of noise?. *Journal of Productivity Analysis*, **2007**, 28, 183-201	1.8	57
52	Testing Hypotheses in Nonparametric Models of Production. *Journal of Business and Economic Statistics*, **2016**, 34, 435-456	3.8	52
51	Estimation and Inference in Nonparametric Frontier Models: Recent Developments and Perspectives. *Foundations and Trends in Econometrics*, **2011**, 5, 183-337	12	46
50	WHEN BIAS KILLS THE VARIANCE: CENTRAL LIMIT THEOREMS FOR DEA AND FDH EFFICIENCY SCORES. *Econometric Theory*, **2015**, 31, 394-422	1.1	45
49	Statistical inference for aggregates of Farrell-type efficiencies. *Journal of Applied Econometrics*, **2007**, 22, 1367-1394	2.2	45
48	On Estimation of Monotone and Concave Frontier Functions		43
47	Asymptotic distribution of conical-hull estimators of directional edges. *Annals of Statistics*, **2010**, 38,	3.2	41
46	A Computationally Efficient, Consistent Bootstrap for Inference with Non-parametric DEA Estimators. *Computational Economics*, **2011**, 38, 483-515	1.4	40
45	Semiparametric efficient estimation of dynamic panel data models. *Journal of Econometrics*, **2007**, 136, 281-301	2.6	36
44	Local likelihood estimation of truncated regression and its partial derivatives: Theory and application. *Journal of Econometrics*, **2008**, 146, 185-198	2.6	36
43	Linearly interpolated FDH efficiency score for nonconvex frontiers. *Journal of Multivariate Analysis*, **2006**, 97, 2141-2161	1.4	35
42	Frontier estimation and extreme value theory. *Bernoulli*, **2010**, 16,	1.6	34
41	Semiparametric-efficient estimation of AR(1) panel data models. *Journal of Econometrics*, **2003**, 117, 279-309	2.6	34
40	Some Problems with the Ferrier/Hirschberg Bootstrap Idea. *Journal of Productivity Analysis*, **1999**, 11, 67-80	1.8	34

39	Parametric approximations of nonparametric frontiers. *Journal of Econometrics*, **2005**, 124, 91-116	2.6	33
38	Nonparametric least squares methods for stochastic frontier models. *Journal of Productivity Analysis*, **2017**, 47, 189-204	1.8	32
37	Robust nonparametric estimators of monotone boundaries. *Journal of Multivariate Analysis*, **2005**, 96, 311-331	1.4	32
36	Efficiency and benchmarking with directional distances: a data-driven approach. *Journal of the Operational Research Society*, **2016**, 67, 928-944	2	31
35	Unobserved heterogeneity and endogeneity in nonparametric frontier estimation. *Journal of Econometrics*, **2016**, 190, 360-373	2.6	29
34	Efficiency and economies of scale and specialization in European universities: A directional distance approach. *Journal of Informetrics*, **2015**, 9, 430-448	3.1	28
33	Frontier estimation in nonparametric location-scale models. *Journal of Econometrics*, **2014**, 178, 456-470	2.6	25
32	A bootstrap approach for bandwidth selection in estimating conditional efficiency measures. *European Journal of Operational Research*, **2019**, 277, 784-797	5.6	24
31	Frontier estimation in the presence of measurement error with unknown variance. *Journal of Econometrics*, **2015**, 184, 379-393	2.6	22
30	Regularization of nonparametric frontier estimators. *Journal of Econometrics*, **2012**, 168, 285-299	2.6	20
29	Hypothesis testing in nonparametric models of production using multiple sample splits. *Journal of Productivity Analysis*, **2020**, 53, 287-303	1.8	19
28	Generalized nonparametric smoothing with mixed discrete and continuous data. *Computational Statistics and Data Analysis*, **2016**, 100, 424-444	1.6	16
27	Nonparametric instrumental variables estimation for efficiency frontier. *Journal of Econometrics*, **2016**, 190, 349-359	2.6	15
26	Globalization and productivity: A robust nonparametric world frontier analysis. *Economic Modelling*, **2018**, 69, 134-149	3.4	15
25	Measuring firm performance using nonparametric quantile-type distances. *Econometric Reviews*, **2017**, 36, 156-181	1.1	14
24	Forecasting the Malmquist productivity index. *Journal of Productivity Analysis*, **2010**, 33, 97-107	1.8	14
23	Portfolio selection in a multi-moment setting: A simple Monte-Carlo-FDH algorithm. *European Journal of Operational Research*, **2017**, 263, 308-320	5.6	11
22	Functional convergence of quantile-type frontiers with application to parametric approximations. *Journal of Statistical Planning and Inference*, **2008**, 138, 708-725	0.8	11

21	Innovation and export activities in the German mechanical engineering sector: an application of testing restrictions in production analysis. *Journal of Productivity Analysis*, **2011**, 36, 55-69	1.8	10
20	Fast and efficient computation of directional distance estimators. *Annals of Operations Research*, **2020**, 288, 805-835	3.2	10
19	Technical, allocative and overall efficiency: Estimation and inference. *European Journal of Operational Research*, **2020**, 282, 1164-1176	5.6	9
18	Central limit theorems and inference for sources of productivity change measured by nonparametric Malmquist indices. *European Journal of Operational Research*, **2019**, 277, 756-769	5.6	8
17	The "wrong skewness" problem in stochastic frontier models: A new approach. *Econometric Reviews*, **2018**, 37, 380-400	1.1	8
16	A BIAS-CORRECTED NONPARAMETRIC ENVELOPMENT ESTIMATOR OF FRONTIERS. *Econometric Theory*, **2009**, 25, 1289-1318	1.1	8
15	Central Limit Theorems for Aggregate Efficiency. *Operations Research*, **2018**, 66, 137-149	2.3	7
14	Nonparametric tests for conditional independence in two-way contingency tables. *Journal of Multivariate Analysis*, **2010**, 101, 765-788	1.4	7
13	Improving finite sample approximation by central limit theorems for estimates from Data Envelopment Analysis. *European Journal of Operational Research*, **2020**, 284, 1002-1015	5.6	6
12	Nonparametric estimation of dynamic discrete choice models for time series data. *Computational Statistics and Data Analysis*, **2017**, 108, 97-120	1.6	5
11	INFERENCE IN DYNAMIC, NONPARAMETRIC MODELS OF PRODUCTION: CENTRAL LIMIT THEOREMS FOR MALMQUIST INDICES. *Econometric Theory*, **2021**, 37, 537-572	1.1	3
10	The three Is of public schools: irrelevant inputs, insufficient resources and inefficiency. *Applied Economics*, **2017**, 49, 1164-1184	1.6	2
9	Quality as a latent heterogeneity factor in the efficiency of universities. *Economic Modelling*, **2021**, 99, 105485	3.4	2
8	Forecasting of recessions via dynamic probit for time series: replication and extension of Kauppi and Saikkonen (2008). *Empirical Economics*, **2020**, 58, 379-392	1.2	2
7	Latent heterogeneity to evaluate the effect of human capital on world technology frontier. *Journal of Productivity Analysis*, **2021**, 55, 71-89	1.8	2
6	Predicting recessions with a frontier measure of output gap: an application to Italian economy. *Empirical Economics*, **2021**, 60, 2701-2740	1.2	1
5	Robust frontier estimation from noisy data: A Tikhonov regularization approach. *Econometrics and Statistics*, **2020**, 14, 1-23	0.8	1
4	Estimation of the Boundary of a Variable Observed With Symmetric Error. *Journal of the American Statistical Association*, **2020**, 115, 425-441	2.8	0

List of Publications

3	Single-index modelling of conditional probabilities in two-way contingency tables. *Statistics*, **2011**, 45, 451-478	0.5
2	Nonparametric Statistical Analysis of Production **2019**, 301-382	
1	ROBUSTIFIED EXPECTED MAXIMUM PRODUCTION FRONTIERS. *Econometric Theory*, **2021**, 37, 346-387	1.1