

# Lopold Simar

## List of Publications by Year in Descending Order

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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	Predicting recessions with a frontier measure of output gap: an application to Italian economy. <i>Empirical Economics</i> , <b>2021</b> , 60, 2701-2740	1.2	1
91	Quality as a latent heterogeneity factor in the efficiency of universities. <i>Economic Modelling</i> , <b>2021</b> , 99, 105485	3.4	2
90	ROBUSTIFIED EXPECTED MAXIMUM PRODUCTION FRONTIERS. <i>Econometric Theory</i> , <b>2021</b> , 37, 346-387	1.1	
89	INFERENCE IN DYNAMIC, NONPARAMETRIC MODELS OF PRODUCTION: CENTRAL LIMIT THEOREMS FOR MALMQUIST INDICES. <i>Econometric Theory</i> , <b>2021</b> , 37, 537-572	1.1	3
88	Latent heterogeneity to evaluate the effect of human capital on world technology frontier. <i>Journal of Productivity Analysis</i> , <b>2021</b> , 55, 71-89	1.8	2
87	Improving finite sample approximation by central limit theorems for estimates from Data Envelopment Analysis. <i>European Journal of Operational Research</i> , <b>2020</b> , 284, 1002-1015	5.6	6
86	Hypothesis testing in nonparametric models of production using multiple sample splits. <i>Journal of Productivity Analysis</i> , <b>2020</b> , 53, 287-303	1.8	19
85	Estimation of the Boundary of a Variable Observed With Symmetric Error. <i>Journal of the American Statistical Association</i> , <b>2020</b> , 115, 425-441	2.8	0
84	Fast and efficient computation of directional distance estimators. <i>Annals of Operations Research</i> , <b>2020</b> , 288, 805-835	3.2	10
83	Forecasting of recessions via dynamic probit for time series: replication and extension of Kauppi and Saikkonen (2008). <i>Empirical Economics</i> , <b>2020</b> , 58, 379-392	1.2	2
82	Robust frontier estimation from noisy data: A Tikhonov regularization approach. <i>Econometrics and Statistics</i> , <b>2020</b> , 14, 1-23	0.8	1
81	Technical, allocative and overall efficiency: Estimation and inference. <i>European Journal of Operational Research</i> , <b>2020</b> , 282, 1164-1176	5.6	9
80	A bootstrap approach for bandwidth selection in estimating conditional efficiency measures. <i>European Journal of Operational Research</i> , <b>2019</b> , 277, 784-797	5.6	24
79	Central limit theorems and inference for sources of productivity change measured by nonparametric Malmquist indices. <i>European Journal of Operational Research</i> , <b>2019</b> , 277, 756-769	5.6	8
78	Nonparametric Statistical Analysis of Production <b>2019</b> , 301-382		
77	The wrong skewness problem in stochastic frontier models: A new approach. <i>Econometric Reviews</i> , <b>2018</b> , 37, 380-400	1.1	8
76	Central limit theorems for conditional efficiency measures and tests of the separability condition in non-parametric, two-stage models of production. <i>Econometrics Journal</i> , <b>2018</b> , 21, 170-191	2.4	95

75	Globalization and productivity: A robust nonparametric world frontier analysis. <i>Economic Modelling</i> , <b>2018</b> , 69, 134-149	3.4	15
74	Central Limit Theorems for Aggregate Efficiency. <i>Operations Research</i> , <b>2018</b> , 66, 137-149	2.3	7
73	Measuring firm performance using nonparametric quantile-type distances. <i>Econometric Reviews</i> , <b>2017</b> , 36, 156-181	1.1	14
72	Nonparametric least squares methods for stochastic frontier models. <i>Journal of Productivity Analysis</i> , <b>2017</b> , 47, 189-204	1.8	32
71	Portfolio selection in a multi-moment setting: A simple Monte-Carlo-FDH algorithm. <i>European Journal of Operational Research</i> , <b>2017</b> , 263, 308-320	5.6	11
70	The three Is of public schools: irrelevant inputs, insufficient resources and inefficiency. <i>Applied Economics</i> , <b>2017</b> , 49, 1164-1184	1.6	2
69	Nonparametric estimation of dynamic discrete choice models for time series data. <i>Computational Statistics and Data Analysis</i> , <b>2017</b> , 108, 97-120	1.6	5
68	Nonparametric instrumental variables estimation for efficiency frontier. <i>Journal of Econometrics</i> , <b>2016</b> , 190, 349-359	2.6	15
67	Generalized nonparametric smoothing with mixed discrete and continuous data. <i>Computational Statistics and Data Analysis</i> , <b>2016</b> , 100, 424-444	1.6	16
66	Unobserved heterogeneity and endogeneity in nonparametric frontier estimation. <i>Journal of Econometrics</i> , <b>2016</b> , 190, 360-373	2.6	29
65	Efficiency and benchmarking with directional distances: a data-driven approach. <i>Journal of the Operational Research Society</i> , <b>2016</b> , 67, 928-944	2	31
64	Testing Hypotheses in Nonparametric Models of Production. <i>Journal of Business and Economic Statistics</i> , <b>2016</b> , 34, 435-456	3.8	52
63	Rankings and university performance: A conditional multidimensional approach. <i>European Journal of Operational Research</i> , <b>2015</b> , 244, 918-930	5.6	72
62	WHEN BIAS KILLS THE VARIANCE: CENTRAL LIMIT THEOREMS FOR DEA AND FDH EFFICIENCY SCORES. <i>Econometric Theory</i> , <b>2015</b> , 31, 394-422	1.1	45
61	Efficiency and economies of scale and specialization in European universities: A directional distance approach. <i>Journal of Informetrics</i> , <b>2015</b> , 9, 430-448	3.1	28
60	Statistical Approaches for Non-parametric Frontier Models: A Guided Tour. <i>International Statistical Review</i> , <b>2015</b> , 83, 77-110	1.4	91
59	Effect of FDI and Time on Catching Up: New Insights from a Conditional Nonparametric Frontier Analysis. <i>Journal of Applied Econometrics</i> , <b>2015</b> , 30, 826-847	2.2	77
58	Frontier estimation in the presence of measurement error with unknown variance. <i>Journal of Econometrics</i> , <b>2015</b> , 184, 379-393	2.6	22

57	Explaining inefficiency in nonparametric production models: the state of the art. <i>Annals of Operations Research</i> , <b>2014</b> , 214, 5-30	3.2	107
56	Directional distances and their robust versions: Computational and testing issues. <i>European Journal of Operational Research</i> , <b>2014</b> , 237, 358-369	5.6	75
55	Frontier estimation in nonparametric location-scale models. <i>Journal of Econometrics</i> , <b>2014</b> , 178, 456-470	2.6	25
54	Statistical inference for DEA estimators of directional distances. <i>European Journal of Operational Research</i> , <b>2012</b> , 220, 853-864	5.6	68
53	Probabilistic characterization of directional distances and their robust versions. <i>Journal of Econometrics</i> , <b>2012</b> , 166, 342-354	2.6	72
52	Regularization of nonparametric frontier estimators. <i>Journal of Econometrics</i> , <b>2012</b> , 168, 285-299	2.6	20
51	How to measure the impact of environmental factors in a nonparametric production model. <i>European Journal of Operational Research</i> , <b>2012</b> , 223, 818-833	5.6	172
50	Estimation and Inference in Nonparametric Frontier Models: Recent Developments and Perspectives. <i>Foundations and Trends in Econometrics</i> , <b>2011</b> , 5, 183-337	12	46
49	The European university landscape: A micro characterization based on evidence from the Aquameth project. <i>Research Policy</i> , <b>2011</b> , 40, 148-164	7.5	78
48	A Computationally Efficient, Consistent Bootstrap for Inference with Non-parametric DEA Estimators. <i>Computational Economics</i> , <b>2011</b> , 38, 483-515	1.4	40
47	Stochastic FDH/DEA estimators for frontier analysis. <i>Journal of Productivity Analysis</i> , <b>2011</b> , 36, 1-20	1.8	78
46	Innovation and export activities in the German mechanical engineering sector: an application of testing restrictions in production analysis. <i>Journal of Productivity Analysis</i> , <b>2011</b> , 36, 55-69	1.8	10
45	Inference by the m out of n bootstrap in nonparametric frontier models. <i>Journal of Productivity Analysis</i> , <b>2011</b> , 36, 33-53	1.8	91
44	Two-stage DEA: caveat emptor. <i>Journal of Productivity Analysis</i> , <b>2011</b> , 36, 205-218	1.8	393
43	Single-index modelling of conditional probabilities in two-way contingency tables. <i>Statistics</i> , <b>2011</b> , 45, 451-478	0.5	
42	Asymptotic distribution of conical-hull estimators of directional edges. <i>Annals of Statistics</i> , <b>2010</b> , 38,	3.2	41
41	Frontier estimation and extreme value theory. <i>Bernoulli</i> , <b>2010</b> , 16,	1.6	34
40	Nonparametric conditional efficiency measures: asymptotic properties. <i>Annals of Operations Research</i> , <b>2010</b> , 173, 105-122	3.2	86

39	Forecasting the Malmquist productivity index. <i>Journal of Productivity Analysis</i> , <b>2010</b> , 33, 97-107	1.8	14
38	Nonparametric tests for conditional independence in two-way contingency tables. <i>Journal of Multivariate Analysis</i> , <b>2010</b> , 101, 765-788	1.4	7
37	Optimal bandwidth selection for conditional efficiency measures: A data-driven approach. <i>European Journal of Operational Research</i> , <b>2010</b> , 201, 633-640	5.6	127
36	Inferences from Cross-Sectional, Stochastic Frontier Models. <i>Econometric Reviews</i> , <b>2009</b> , 29, 62-98	1.1	64
35	A BIAS-CORRECTED NONPARAMETRIC ENVELOPMENT ESTIMATOR OF FRONTIERS. <i>Econometric Theory</i> , <b>2009</b> , 25, 1289-1318	1.1	8
34	ASYMPTOTICS AND CONSISTENT BOOTSTRAPS FOR DEA ESTIMATORS IN NONPARAMETRIC FRONTIER MODELS. <i>Econometric Theory</i> , <b>2008</b> , 24, 1663-1697	1.1	172
33	Functional convergence of quantile-type frontiers with application to parametric approximations. <i>Journal of Statistical Planning and Inference</i> , <b>2008</b> , 138, 708-725	0.8	11
32	Local likelihood estimation of truncated regression and its partial derivatives: Theory and application. <i>Journal of Econometrics</i> , <b>2008</b> , 146, 185-198	2.6	36
31	Statistical inference for aggregates of Farrell-type efficiencies. <i>Journal of Applied Econometrics</i> , <b>2007</b> , 22, 1367-1394	2.2	45
30	Estimation and inference in two-stage, semi-parametric models of production processes. <i>Journal of Econometrics</i> , <b>2007</b> , 136, 31-64	2.6	1883
29	Semiparametric efficient estimation of dynamic panel data models. <i>Journal of Econometrics</i> , <b>2007</b> , 136, 281-301	2.6	36
28	Nonparametric stochastic frontiers: A local maximum likelihood approach. <i>Journal of Econometrics</i> , <b>2007</b> , 137, 1-27	2.6	144
27	Nonparametric efficiency analysis: A multivariate conditional quantile approach. <i>Journal of Econometrics</i> , <b>2007</b> , 140, 375-400	2.6	173
26	Conditional nonparametric frontier models for convex and nonconvex technologies: a unifying approach. <i>Journal of Productivity Analysis</i> , <b>2007</b> , 28, 13-32	1.8	227
25	How to improve the performances of DEA/FDH estimators in the presence of noise?. <i>Journal of Productivity Analysis</i> , <b>2007</b> , 28, 183-201	1.8	57
24	Linearly interpolated FDH efficiency score for nonconvex frontiers. <i>Journal of Multivariate Analysis</i> , <b>2006</b> , 97, 2141-2161	1.4	35
23	On Testing Equality of Distributions of Technical Efficiency Scores. <i>Econometric Reviews</i> , <b>2006</b> , 25, 497-522		144
22	A robust nonparametric approach to evaluate and explain the performance of mutual funds. <i>European Journal of Operational Research</i> , <b>2006</b> , 175, 516-542	5.6	101

21	Robust nonparametric estimators of monotone boundaries. <i>Journal of Multivariate Analysis</i> , <b>2005</b> , 96, 311-331	1.4	32
20	Parametric approximations of nonparametric frontiers. <i>Journal of Econometrics</i> , <b>2005</b> , 124, 91-116	2.6	33
19	Introducing Environmental Variables in Nonparametric Frontier Models: a Probabilistic Approach. <i>Journal of Productivity Analysis</i> , <b>2005</b> , 24, 93-121	1.8	419
18	Detecting Outliers in Frontier Models: A Simple Approach. <i>Journal of Productivity Analysis</i> , <b>2003</b> , 20, 391-484	1.8	205
17	Semiparametric-efficient estimation of AR(1) panel data models. <i>Journal of Econometrics</i> , <b>2003</b> , 117, 279-309	2.6	34
16	Non-parametric tests of returns to scale. <i>European Journal of Operational Research</i> , <b>2002</b> , 139, 115-132	5.6	251
15	Nonparametric frontier estimation: a robust approach. <i>Journal of Econometrics</i> , <b>2002</b> , 106, 1-25	2.6	614
14	Estimating a Changepoint, Boundary, or Frontier in the Presence of Observation Error. <i>Journal of the American Statistical Association</i> , <b>2002</b> , 97, 523-534	2.8	68
13	TESTING RESTRICTIONS IN NONPARAMETRIC EFFICIENCY MODELS. <i>Communications in Statistics Part B: Simulation and Computation</i> , <b>2001</b> , 30, 159-184	0.6	60
12	Statistical Inference in Nonparametric Frontier Models: The State of the Art. <i>Journal of Productivity Analysis</i> , <b>2000</b> , 13, 49-78	1.8	564
11	A general methodology for bootstrapping in non-parametric frontier models. <i>Journal of Applied Statistics</i> , <b>2000</b> , 27, 779-802	1	665
10	Estimating and bootstrapping Malmquist indices. <i>European Journal of Operational Research</i> , <b>1999</b> , 115, 459-471	5.6	343
9	Some Problems with the Ferrier/Hirschberg Bootstrap Idea. <i>Journal of Productivity Analysis</i> , <b>1999</b> , 11, 67-80	1.8	34
8	Of Course We Can Bootstrap DEA Scores! But Does It Mean Anything? Logic Trumps Wishful Thinking. <i>Journal of Productivity Analysis</i> , <b>1999</b> , 11, 93-97	1.8	61
7	On Estimation of Monotone and Concave Frontier Functions. <i>Journal of the American Statistical Association</i> , <b>1999</b> , 94, 220-228	2.8	121
6	Sensitivity Analysis of Efficiency Scores: How to Bootstrap in Nonparametric Frontier Models. <i>Management Science</i> , <b>1998</b> , 44, 49-61	3.9	1259
5	A NOTE ON THE CONVERGENCE OF NONPARAMETRIC DEA ESTIMATORS FOR PRODUCTION EFFICIENCY SCORES. <i>Econometric Theory</i> , <b>1998</b> , 14, 783-793	1.1	256
4	Pitfalls of Normal-Gamma Stochastic Frontier Models. <i>Journal of Productivity Analysis</i> , <b>1997</b> , 8, 167-182	1.8	90

3	Aspects of statistical analysis in DEA-type frontier models. <i>Journal of Productivity Analysis</i> , <b>1996</b> , 7, 177-185	64
2	A general framework for frontier estimation with panel data. <i>Journal of Productivity Analysis</i> , <b>1996</b> , 7, 187-212	71
1	On Estimation of Monotone and Concave Frontier Functions	43