

Juan Aparicio

List of Publications by Year in descending order

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119
papers

2,296
citations

230014

27
h-index

286692

43
g-index

138
all docs

138
docs citations

138
times ranked

1293
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Random Forests and the measurement of super-efficiency in the context of Free Disposal Hull. European Journal of Operational Research, 2023, 304, 729-744. | 3.5 | 17 |
| 2 | Comparing the evolution of productivity and performance gaps in education systems through DEA: an application to Latin American countries. Operational Research, 2022, 22, 1443-1477. | 1.3 | 11 |
| 3 | Determining closest targets on the extended facet production possibility set in data envelopment analysis: Modeling and computational aspects. European Journal of Operational Research, 2022, 296, 927-939. | 3.5 | 32 |
| 4 | A hyper-matheuristic approach for solving mixed integer linear optimization models in the context of data envelopment analysis. PeerJ Computer Science, 2022, 8, e828. | 2.7 | 8 |
| 5 | The generalized range adjusted measure in data envelopment analysis: Properties, computational aspects and duality. European Journal of Operational Research, 2022, 302, 621-632. | 3.5 | 6 |
| 6 | The performance of regional governments under the results-based budgeting framework: A two-stage sectoral analysis. RAIRO - Operations Research, 2022, 56, 501-528. | 1.0 | 2 |
| 7 | Weight profiles in cross-efficiency evaluation based on hypervolume maximization. Socio-Economic Planning Sciences, 2022, 82, 101270. | 2.5 | 2 |
| 8 | Combining Data Envelopment Analysis and Machine Learning. Mathematics, 2022, 10, 909. | 1.1 | 8 |
| 9 | Multi-output Support Vector Frontiers. Computers and Operations Research, 2022, 143, 105765. | 2.4 | 8 |
| 10 | Learning to win on the PGA tour. Applied Economics, 2021, 53, 6104-6119. | 1.2 | 0 |
| 11 | Modelling environmental inefficiency under a quota system. Operational Research, 2021, 21, 1097-1124. | 1.3 | 2 |
| 12 | Russell Graph efficiency measures in Data Envelopment Analysis: The multiplicative approach. European Journal of Operational Research, 2021, 292, 663-674. | 3.5 | 9 |
| 13 | A new measure of technical efficiency in data envelopment analysis based on the maximization of hypervolumes: Benchmarking, properties and computational aspects. European Journal of Operational Research, 2021, 293, 263-275. | 3.5 | 7 |
| 14 | Economic cross-efficiency. Omega, 2021, 100, 102374. | 3.6 | 13 |
| 15 | The productivity of national innovation systems in Europe: Catching up or falling behind?. Technovation, 2021, 102, 102215. | 4.2 | 28 |
| 16 | Heuristic and Backtracking Algorithms for Improving the Performance of Efficiency Analysis Trees. IEEE Access, 2021, 9, 17421-17428. | 2.6 | 13 |
| 17 | The systemic approach as an instrument to evaluate higher education systems: Opportunities and challenges. Research Evaluation, 2021, 30, 336-348. | 1.3 | 1 |
| 18 | Data science for better productivity. Journal of the Operational Research Society, 2021, 72, 971-974. | 2.1 | 2 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | The European tomato market. An approach by export competitiveness maps. PLoS ONE, 2021, 16, e0250867. | 1.1 | 19 |
| 20 | Efficiency Analysis with Educational Data: How to Deal with Plausible Values from International Large-Scale Assessments. Mathematics, 2021, 9, 1579. | 1.1 | 11 |
| 21 | Support vector frontiers: A new approach for estimating production functions through support vector machines. Omega, 2021, 104, 102490. | 3.6 | 24 |
| 22 | Comparing group performance over time through the Luenberger productivity indicator: An application to school ownership in European countries. European Journal of Operational Research, 2021, 294, 651-672. | 3.5 | 3 |
| 23 | Introducing a functional framework for integrating the empirical evidence about higher education institutions' functions and capabilities: A literature review. Journal of Entrepreneurship, Management and Innovation, 2021, 17, 231-267. | 0.6 | 2 |
| 24 | The Estimation of Productive Efficiency Through Machine Learning Techniques: Efficiency Analysis Trees. Profiles in Operations Research, 2021, , 51-92. | 0.3 | 1 |
| 25 | Estimating and decomposing overall inefficiency by determining the least distance to the strongly efficient frontier in data envelopment analysis. Operational Research, 2020, 20, 747-770. | 1.3 | 8 |
| 26 | Efficiency and productivity change of regional tax offices in Spain: an empirical study using Malmquist's Luenberger and Luenberger indices. Empirical Economics, 2020, 59, 1403-1434. | 1.5 | 4 |
| 27 | Defining a new graph inefficiency measure for the proportional directional distance function and introducing a new Malmquist productivity index. European Journal of Operational Research, 2020, 281, 222-230. | 3.5 | 29 |
| 28 | A linear ordering problem of sets. Annals of Operations Research, 2020, 288, 45-64. | 2.6 | 5 |
| 29 | A Parallel Algorithm for Matheuristics: A Comparison of Optimization Solvers. Electronics (Switzerland), 2020, 9, 1541. | 1.8 | 3 |
| 30 | Efficiency analysis trees: A new methodology for estimating production frontiers through decision trees. Expert Systems With Applications, 2020, 162, 113783. | 4.4 | 39 |
| 31 | Robust DEA Efficiency Scores: A Heuristic for the Combinatorial/Probabilistic Approach. Profiles in Operations Research, 2020, , 125-142. | 0.3 | 0 |
| 32 | The measurement of environmental economic inefficiency with pollution-generating technologies. Resources and Energy Economics, 2020, 62, 101185. | 1.1 | 6 |
| 33 | A Well-Defined Composite Indicator: An Application to Corporate Social Responsibility. Journal of Optimization Theory and Applications, 2020, 186, 299-323. | 0.8 | 19 |
| 34 | Introducing cross-productivity: A new approach for ranking productive units over time in Data Envelopment Analysis. Computers and Industrial Engineering, 2020, 144, 106456. | 3.4 | 8 |
| 35 | Testing Positive Endogeneity in Inputs in Data Envelopment Analysis. Profiles in Operations Research, 2020, , 53-66. | 0.3 | 0 |
| 36 | New Definitions of Economic Cross-efficiency. Profiles in Operations Research, 2020, , 11-32. | 0.3 | 2 |

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| 37 | On the Estimation of Educational Technical Efficiency from Sample Designs: A New Methodology Using Robust Nonparametric Models. Profiles in Operations Research, 2020, , 87-105. | 0.3 | 0 |
| 38 | Grupos estratgicos en el sector privado de la educacin superior. Educacin XXI, 2020, 24, . | 0.3 | 2 |
| 39 | Luenberger-type indicators based on the weighted additive distance function. Annals of Operations Research, 2019, 278, 195-213. | 2.6 | 7 |
| 40 | Composite Indicators based on the Principle of Least Action and Data Envelopment Analysis. An application to Corporate Social Responsibility Data. SSRN Electronic Journal, 2019, , . | 0.4 | 0 |
| 41 | The curse of dimensionality of decision-making units: A simple approach to increase the discriminatory power of data envelopment analysis. European Journal of Operational Research, 2019, 279, 929-940. | 3.5 | 78 |
| 42 | Enhancing the Measurement of Composite Indicators of Corporate Social Performance. Social Indicators Research, 2019, 144, 807-826. | 1.4 | 24 |
| 43 | The Measurement of Environmental Economic Inefficiency with Pollution-generating Technologies. SSRN Electronic Journal, 2019, , . | 0.4 | 0 |
| 44 | Measuring efficiency in education: The influence of imprecision and variability in data on DEA estimates. Socio-Economic Planning Sciences, 2019, 68, 100698. | 2.5 | 29 |
| 45 | Accounting for slacks to measure dynamic inefficiency in data envelopment analysis. European Journal of Operational Research, 2019, 278, 463-471. | 3.5 | 13 |
| 46 | The measurement of revenue inefficiency over time: An additive perspective. Omega, 2019, 83, 167-180. | 3.6 | 4 |
| 47 | A Parallel Application of Matheuristics in Data Envelopment Analysis. Advances in Intelligent Systems and Computing, 2019, , 172-179. | 0.5 | 1 |
| 48 | A note on measuring group performance over time with pseudo-panels. European Journal of Operational Research, 2018, 267, 227-235. | 3.5 | 16 |
| 49 | Using non-radial DEA to assess school efficiency in a cross-country perspective: An empirical analysis of OECD countries. Omega, 2018, 79, 9-20. | 3.6 | 39 |
| 50 | Economic crisis and public education. A productivity analysis using a Hicks-Moorsteen index. Economic Modelling, 2018, 71, 34-44. | 1.8 | 23 |
| 51 | Enhancing the Measurement of Composite Indicators of Corporate Social Performance. SSRN Electronic Journal, 2018, , . | 0.4 | 0 |
| 52 | Bounded directional distance function models. Central European Journal of Operations Research, 2018, 26, 985-1004. | 1.1 | 6 |
| 53 | Are charter value and supervision aligned? A segmentation analysis. Journal of Financial Stability, 2018, 37, 60-73. | 2.6 | 5 |
| 54 | Evaluating productive performance: A new approach based on the product-mix problem consistent with Data Envelopment Analysis. Omega, 2017, 67, 134-144. | 3.6 | 15 |

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| 55 | Testing the consistency and feasibility of the standard Malmquist-Luenberger index: Environmental productivity in world air emissions. <i>Journal of Environmental Management</i> , 2017, 196, 148-160. | 3.8 | 31 |
| 56 | Measuring input-specific productivity change based on the principle of least action. <i>Journal of Productivity Analysis</i> , 2017, 47, 17-31. | 0.8 | 7 |
| 57 | Measuring and decomposing profit inefficiency through the Slacks-Based Measure. <i>European Journal of Operational Research</i> , 2017, 260, 650-654. | 3.5 | 32 |
| 58 | Revisiting the decomposition of cost efficiency for non-homothetic technologies: a directional distance function approach. <i>Journal of Productivity Analysis</i> , 2017, 48, 133-146. | 0.8 | 6 |
| 59 | Productivity change of Portuguese municipalities after local reforms. <i>Applied Economics Letters</i> , 2017, 24, 878-881. | 1.0 | 4 |
| 60 | A parameterized scheme of metaheuristics with exact methods for determining the Principle of Least Action in Data Envelopment Analysis. , 2017, , . | | 2 |
| 61 | Graph productivity change measure using the least distance to the pareto-efficient frontier in data envelopment analysis. <i>Omega</i> , 2017, 72, 1-14. | 3.6 | 20 |
| 62 | Can Farrell's allocative efficiency be generalized by the directional distance function approach?. <i>European Journal of Operational Research</i> , 2017, 257, 345-351. | 3.5 | 15 |
| 63 | The determination of the least distance to the strongly efficient frontier in Data Envelopment Analysis oriented models: Modelling and computational aspects. <i>Omega</i> , 2017, 71, 1-10. | 3.6 | 65 |
| 64 | Comparing school ownership performance using a pseudo-panel database: A Malmquist-type index approach. <i>European Journal of Operational Research</i> , 2017, 256, 533-542. | 3.5 | 34 |
| 65 | Eficiencia t cnica de las denominaciones de origen protegidas en Espa a: Un an lisis por tipo de vino comercializado. <i>BIO Web of Conferences</i> , 2017, 9, 03005. | 0.1 | 0 |
| 66 | Analysis of Spain's competitiveness in the European tomato market: An application of the Constant Market Share method. <i>Spanish Journal of Agricultural Research</i> , 2017, 15, e0113. | 0.3 | 7 |
| 67 | Production under a quota system: an extension of the weighted additive model to assess technical efficiency. <i>Infor</i> , 2017, 55, 227-242. | 0.5 | 3 |
| 68 | A Parameterized Scheme of Metaheuristics to Solve NP-Hard Problems in Data Envelopment Analysis. <i>Profiles in Operations Research</i> , 2016, , 195-224. | 0.3 | 1 |
| 69 | A survey on measuring efficiency through the determination of the least distance in data envelopment analysis. <i>Journal of CENTRUM Cathedra (JCC) the Business and Economics Research Journal</i> , 2016, 9, 143-167. | 0.4 | 33 |
| 70 | The weighted additive distance function. <i>European Journal of Operational Research</i> , 2016, 254, 338-346. | 3.5 | 34 |
| 71 | The directional distance function and the translation invariance property. <i>Omega</i> , 2016, 58, 1-3. | 3.6 | 37 |
| 72 | The Reverse Directional Distance Function. <i>Profiles in Operations Research</i> , 2016, , 15-57. | 0.3 | 9 |

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| 73 | Loss Distance Functions and Profit Function: General Duality Results. Profiles in Operations Research, 2016, , 71-96. | 0.3 | 10 |
| 74 | ICT TRAINING FOR FUTURE TEACHERS. INTED Proceedings, 2016, , . | 0.0 | 0 |
| 75 | Changes in productivity in the virgin olive oil sector: An application to Protected Designations of Origin in Spain. Spanish Journal of Agricultural Research, 2016, 14, e0104. | 0.3 | 3 |
| 76 | Using Genetic Algorithms for Maximizing Technical Efficiency in Data Envelopment Analysis. Procedia Computer Science, 2015, 51, 374-383. | 1.2 | 12 |
| 77 | Translation Invariance in Data Envelopment Analysis. Profiles in Operations Research, 2015, , 245-268. | 0.3 | 10 |
| 78 | Measuring and decomposing firm's revenue and cost efficiency: The Russell measures revisited. International Journal of Production Economics, 2015, 165, 19-28. | 5.1 | 35 |
| 79 | An enhanced BAM for unbounded or partially bounded CRS additive models. Omega, 2015, 56, 16-24. | 3.6 | 13 |
| 80 | How to properly decompose economic efficiency using technical and allocative criteria with non-homothetic DEA technologies. European Journal of Operational Research, 2015, 240, 882-891. | 3.5 | 41 |
| 81 | ¿Son los Vinos de Pago la figura más eficiente entre las DOP españolas?. , 2015, , . | | 1 |
| 82 | Benchmarking in Data Envelopment Analysis: An Approach Based on Genetic Algorithms and Parallel Programming. Advances in Operations Research, 2014, 2014, 1-9. | 0.2 | 10 |
| 83 | Closest targets and strong monotonicity on the strongly efficient frontier in DEA. Omega, 2014, 44, 51-57. | 3.6 | 80 |
| 84 | On how to properly calculate the Euclidean distance-based measure in DEA. Optimization, 2014, 63, 421-432. | 1.0 | 50 |
| 85 | Decomposing technical inefficiency using the principle of least action. European Journal of Operational Research, 2014, 239, 776-785. | 3.5 | 24 |
| 86 | Benchmarking and Data Envelopment Analysis. An Approach based on Metaheuristics. Procedia Computer Science, 2014, 29, 390-399. | 1.2 | 10 |
| 87 | Benchmarking in Healthcare: An Approach Based on Closest Targets. Profiles in Operations Research, 2014, , 67-91. | 0.3 | 4 |
| 88 | Modeling CRS bounded additive DEA models and characterizing their Pareto-efficient points. Journal of Productivity Analysis, 2013, 40, 285-292. | 0.8 | 13 |
| 89 | The directional profit efficiency measure: on why profit inefficiency is either technical or allocative. Journal of Productivity Analysis, 2013, 40, 257-266. | 0.8 | 82 |
| 90 | A well-defined efficiency measure for dealing with closest targets in DEA. Applied Mathematics and Computation, 2013, 219, 9142-9154. | 1.4 | 57 |

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| 91 | Accounting for slacks to measure and decompose revenue efficiency in the Spanish Designation of Origin wines with DEA. <i>European Journal of Operational Research</i> , 2013, 231, 443-451. | 3.5 | 51 |
| 92 | On the inconsistency of the Malmquist-Luenberger index. <i>European Journal of Operational Research</i> , 2013, 229, 738-742. | 3.5 | 72 |
| 93 | An overall measure of technical inefficiency at the firm and at the industry level: The "lost profit on outlay"™. <i>European Journal of Operational Research</i> , 2013, 226, 154-162. | 3.5 | 42 |
| 94 | Application of Genetic Algorithms to Determine Closest Targets in Data Envelopment Analysis. <i>Advances in Intelligent Systems and Computing</i> , 2013, , 111-119. | 0.5 | 4 |
| 95 | RANKING AUCTIONS: A COOPERATIVE APPROACH. <i>International Game Theory Review</i> , 2012, 14, 1250003. | 0.3 | 2 |
| 96 | Standardization of short-term load forecasting models. , 2012, , . | | 4 |
| 97 | Families of linear efficiency programs based on Debreu's loss function. <i>Journal of Productivity Analysis</i> , 2012, 38, 109-120. | 0.8 | 40 |
| 98 | Directional Distance Functions and Rate-of-Return Regulation. <i>Advances in Decision Sciences</i> , 2012, 2012, 1-11. | 1.4 | 14 |
| 99 | Application of SOM neural networks to short-term load forecasting: The Spanish electricity market case study. <i>Electric Power Systems Research</i> , 2012, 91, 18-27. | 2.1 | 86 |
| 100 | Benefit function and individual preferences. A generalization of the zero-maximum principle. <i>Economics and Business Letters</i> , 2012, 1, 12. | 0.4 | 0 |
| 101 | Development of a model for short-term load forecasting with neural networks and its application to the electrical Spanish market. , 2011, , . | | 5 |
| 102 | A SOM neural network approach to load forecasting. Meteorological and time frame influence. , 2011, , . | | 1 |
| 103 | Assessing communications technology options for smart grid applications. , 2011, , . | | 50 |
| 104 | A General Input Distance Function Based on Opportunity Costs. <i>Advances in Decision Sciences</i> , 2011, 2011, 1-11. | 1.4 | 7 |
| 105 | BAM: a bounded adjusted measure of efficiency for use with bounded additive models. <i>Journal of Productivity Analysis</i> , 2011, 35, 85-94. | 0.8 | 132 |
| 106 | Decomposing profit inefficiency in DEA through the weighted additive model. <i>European Journal of Operational Research</i> , 2011, 212, 411-416. | 3.5 | 61 |
| 107 | A note on "A directional slacks-based measure of technical inefficiency". <i>Socio-Economic Planning Sciences</i> , 2010, 44, 174-175. | 2.5 | 12 |
| 108 | The relevance of DEA benchmarking information and the Least-Distance Measure: Comment. <i>Mathematical and Computer Modelling</i> , 2010, 52, 397-399. | 2.0 | 46 |

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| 109 | Design and Implementation of a Decision Support System for Analysing Ranking Auction Markets for Internet Search Services. , 2010, , . | | 1 |
| 110 | Using a Self Organizing Map Neural Network for Short-Term Load Forecasting, Analysis of Different Input Data Patterns. Advances in Intelligent and Soft Computing, 2010, , 397-400. | 0.2 | 5 |
| 111 | A new pricing scheme based on DEA for iterative multi-unit combinatorial auctions. Top, 2008, 16, 319-344. | 1.1 | 11 |
| 112 | Strategic bidding in continuous electricity auctions: an application to the Spanish electricity market. Annals of Operations Research, 2008, 158, 229-241. | 2.6 | 7 |
| 113 | Depreciation games. Annals of Operations Research, 2008, 158, 205-218. | 2.6 | 5 |
| 114 | Design and implementation of a decision support system for competitive electricity markets. Decision Support Systems, 2008, 44, 765-784. | 3.5 | 13 |
| 115 | Closest targets and minimum distance to the Pareto-efficient frontier in DEA. Journal of Productivity Analysis, 2007, 28, 209-218. | 0.8 | 215 |
| 116 | Are Charter Value and Supervision Aligned? A Segmentation Analysis. SSRN Electronic Journal, 0, , . | 0.4 | 0 |
| 117 | Economic Cross-Efficiency. SSRN Electronic Journal, 0, , . | 0.4 | 0 |
| 118 | New Definitions of Economic Cross-Efficiency. SSRN Electronic Journal, 0, , . | 0.4 | 0 |
| 119 | Plausible values and their use in efficiency analyses with educational data. Applied Economics, 0, , 1-13. | 1.2 | 0 |