# Rafael Pastor Moreno

List of Publications by Year
in descending order



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|---|---|---|---|
| 99 papers | 1,823 citations | 279487 23 h-index | 329751 37 g-index |
| 101 all docs | 101 docs citations | 101 times ranked | 1173 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Balancing and scheduling tasks in assembly lines with sequence-dependent setup times. European Journal of Operational Research, 2008, 187, 1212-1223. | 3.5 | 135 |
| 2 | Balancing assembly line with skilled and unskilled workers. Omega, 2008, 36, 1126-1132. | 3.6 | 101 |
| 3 | A MILP model to design hybrid windâ€“photovoltaic isolated rural electrification projects in developing countries. European Journal of Operational Research, 2013, 226, 293-300. | 3.5 | 100 |
| 4 | Heuristic procedures for solving the general assembly line balancing problem with setups. International Journal of Production Research, 2010, 48, 1787-1804. | 4.9 | 62 |
| 5 | Tabu search algorithms for an industrial multi-product and multi-objective assembly line balancing problem, with reduction of the task dispersion. Journal of the Operational Research Society, 2002, 53, 1317-1323. | 2.1 | 55 |
| 6 | Renewable energy projects to electrify rural communities in Cape Verde. Applied Energy, 2014, 118, 280-291. | 5.1 | 55 |
| 7 | A community electrification project: Combination of microgrids and household systems fed by wind, PV or micro-hydro energies according to micro-scale resource evaluation and social constraints. Energy for Sustainable Development, 2014, 23, 275-285. | 2.0 | 51 |
| 8 | An improved mathematical program to solve the simple assembly line balancing problem. International Journal of Production Research, 2009, 47, 2943-2959. | 4.9 | 49 |
| 9 | An evaluation of constructive heuristic methods for solving the alternative subgraphs assembly line balancing problem. Journal of Heuristics, 2009, 15, 109-132. | 1.1 | 48 |
| 10 | Introducing dynamic diversity into a discrete particle swarm optimization. Computers and Operations Research, 2009, 36, 951-966. | 2.4 | 48 |
| 11 | Assembly line balancing: general resource-constrained case. International Journal of Production Research, 2011, 49, 3527-3542. | 4.9 | 44 |
| 12 | Off-grid community electrification projects based on wind and solar energies: A case study in Nicaragua. Solar Energy, 2015, 117, 268-281. | 2.9 | 44 |
| 13 | A dispatching algorithm for flexible job-shop scheduling with transfer batches: an industrial application. Production Planning and Control, 2014, 25, 93-109. | 5.8 | 41 |
| 14 | Rotational allocation of tasks to multifunctional workers in a service industry. International Journal of Production Economics, 2006, 103, 3-9. | 5.1 | 40 |
| 15 | A model for the assignment of a set of tasks when work performance depends on experience of all tasks involved. International Journal of Production Economics, 2010, 126, 335-340. | 5.1 | 35 |
| 16 | Using MILP to plan annualised working hours. Journal of the Operational Research Society, 2002, 53, 1101-1108. | 2.1 | 34 |
| 17 | Planning Annualised Hours with a Finite Set of Weekly Working Hours and Joint Holidays. Annals of Operations Research, 2004, 128, 217-233. | 2.6 | 34 |
| 18 | Using a MILP model to establish a framework for an annualised hours agreement. European Journal of Operational Research, 2007, 177, 1495-1506. | 3.5 | 31 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Hierarchical methodology to optimize the design of stand-alone electrification systems for rural communities considering technical and social criteria. Renewable and Sustainable Energy Reviews, 2015, 51, 182-196. | 8.2 | 31 |
| 20 | Selecting and adapting weekly work schedules with working time accounts: A case of a retail clothing chain. European Journal of Operational Research, 2008, 184, 1-12. | 3.5 | 30 |
| 21 | ASALBP: the alternative subgraphs assembly line balancing problem. International Journal of Production Research, 2008, 46, 3503-3516. | 4.9 | 29 |
| 22 | The multi-objective assembly line worker integration and balancing problem of type-2. Computers and Operations Research, 2017, 82, 114-125. | 2.4 | 28 |
| 23 | Heuristic indicators for the design of community off-grid electrification systems based on multiple renewable energies. Energy, 2013, 50, 501-512. | 4.5 | 26 |
| 24 | Optimizing microwind rural electrification projects. A case study in Peru. Journal of Global Optimization, 2011, 50, 127-143. | 1.1 | 24 |
| 25 | A survey of the parallel assembly lines balancing problem. Computers and Operations Research, 2020, 124, 105061. | 2.4 | 24 |
| 26 | Hyper-heuristic approaches for the response time variability problem. European Journal of Operational Research, 2011, 211, 160-169. | 3.5 | 23 |
| 27 | Multi-objective allocation of multi-function workers with lower bounded capacity. Journal of the Operational Research Society, 2005, 56, 738-743. | 2.1 | 21 |
| 28 | Local and regional microgrid models to optimise the design of isolated electrification projects. Renewable Energy, 2018, 119, 795-808. | 4.3 | 21 |
| 29 | Characteristics and classification of the annualised working hours planning problems. International Journal of Services, Technology and Management, 2004, 5, 435. | 0.1 | 19 |
| 30 | LB-ALBP: the lexicographic bottleneck assembly line balancing problem. International Journal of Production Research, 2011, 49, 2425-2442. | 4.9 | 19 |
| 31 | Task assignment considering cross-training goals and due dates. International Journal of Production Research, 2013, 51, 952-962. | 4.9 | 19 |
| 32 | Planning annualised hours with a finite set of weekly working hours and cross-trained workers. European Journal of Operational Research, 2007, 176, 230-239. | 3.5 | 17 |
| 33 | Planning production using mathematical programming: The case of a woodturning company. Computers and Operations Research, 2009, 36, 2173-2178. | 2.4 | 17 |
| 34 | Solving the response time variability problem by means of a genetic algorithm. European Journal of Operational Research, 2010, 202, 320-327. | 3.5 | 17 |
| 35 | Mathematical programming modeling of the Response Time Variability Problem. European Journal of Operational Research, 2010, 200, 347-357. | 3.5 | 17 |
| 36 | Solving the response time variability problem by means of the electromagnetism-like mechanism. International Journal of Production Research, 2010, 48, 6701-6714. | 4.9 | 16 |

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|---|---|---|---|
| 37 | Replanning working time under annualised working hours. International Journal of Production Research, 2010, 48, 1493-1515. | 4.9 | 15 |
| 38 | Planning working time accounts under demand uncertainty. Computers and Operations Research, 2011, 38, 517-524. | 2.4 | 15 |
| 39 | A heuristic method to design autonomous village electrification projects with renewable energies. Energy, 2014, 73, 96-109. | 4.5 | 15 |
| 40 | The ASALB Problem with Processing Alternatives Involving Different Tasks: Definition, Formalization and Resolution. Lecture Notes in Computer Science, 2006, , 554-563. | 1.0 | 14 |
| 41 | Evaluating Optimization Models to Solve SALBP. , 2007, , 791-803. | | 14 |
| 42 | A bicriteria integer programming model for the hierarchical workforce scheduling problem. Journal of Modelling in Management, 2010, 5, 54-62. | 1.1 | 14 |
| 43 | A heuristic procedure for solving the Lexicographic Bottleneck Assembly Line Balancing Problem (LB-ALBP). International Journal of Production Research, 2012, 50, 1862-1876. | 4.9 | 14 |
| 44 | MILP-based heuristics for the design of rural community electrification projects. Computers and Operations Research, 2016, 71, 90-99. | 2.4 | 14 |
| 45 | Planning production and working time withinÂanÂannualised hours scheme framework. Annals of Operations Research, 2007, 155, 5-23. | 2.6 | 13 |
| 46 | A meta-heuristic method to design off-grid community electrification projects with renewable energies. Energy, 2015, 93, 2467-2482. | 4.5 | 13 |
| 47 | Heuristic Methods to Solve the Alternative Subgraphs Assembly Line Balancing Problem. , 2006, , . | | 12 |
| 48 | An exact procedure for planning holidays and working time under annualized hours considering cross-trained workers with different efficiencies. International Journal of Production Research, 2008, 46, 2123-2142. | 4.9 | 12 |
| 49 | A MILP model for the Accessibility Windows Assembly Line Balancing Problem (AWALBP). International Journal of Production Research, 2013, 51, 3549-3560. | 4.9 | 12 |
| 50 | Combining matheuristics and MILP to solve the accessibility windows assembly line balancing problem level 2 (AWALBP-L2). Computers and Operations Research, 2014, 48, 113-123. | 2.4 | 12 |
| 51 | Solving the response time variability problem by means of a psychoclonal approach. Journal of Heuristics, 2010, 16, 337-351. | 1.1 | 11 |
| 52 | Including management and security of supply constraints for designing stand-alone electrification systems in developing countries. Renewable Energy, 2015, 80, 359-369. | 4.3 | 11 |
| 53 | Production planning under a working time accounts scheme. International Journal of Production Research, 2009, 47, 3435-3451. | 4.9 | 10 |
| 54 | Capacity planning with working time accounts in services. Journal of the Operational Research Society, 2010, 61, 321-331. | 2.1 | 10 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Heuristics and simulated annealing procedures for the accessibility windows assembly line problem level 1 (AWALBP-L1). Computers and Operations Research, 2015, 62, 1-11. | 2.4 | 10 |
| 56 | Fine-tuning a parametric Clarke and Wright heuristic by means of EAGH (empirically adjusted greedy) Tj ETQq0 0 0 rgBT /Overlock 10 Tf | 2.1 | 9 |
| 57 | Annualised Hours: A Real Flexibility Tool. OR Insight, 2005, 18, 10-14. | 0.1 | 8 |
| 58 | A multistage graph-based procedure for solving a just-in-time flexible job-shop scheduling problem with machine and time-dependent processing costs. Journal of the Operational Research Society, 2019, 70, 620-633. | 2.1 | 8 |
| 59 | Determining the most appropriate set of weekly working hours for planning annualised working time. International Journal of Production Economics, 2008, 111, 697-706. | 5.1 | 7 |
| 60 | An entropy-based measurement of working time flexibility. European Journal of Operational Research, 2010, 200, 253-260. | 3.5 | 7 |
| 61 | Comparison of various approaches to design windâ€PV rural electrification projects in remote areas of developing countries. Wiley Interdisciplinary Reviews: Energy and Environment, 2019, 8, e332. | 1.9 | 7 |
| 62 | Ad-hoc heuristic for design of wind-photovoltaic electrification systems, including management constraints. Energy, 2020, 212, 118755. | 4.5 | 7 |
| 63 | Human resource management using working time accounts with expiry of hours. Journal of Industrial and Management Optimization, 2009, 5, 569-584. | 0.8 | 7 |
| 64 | Multi-manned assembly line balancing problem with dependent task times: a heuristic based on solving a partition problem with constraints. European Journal of Operational Research, 2022, 302, 96-116. | 3.5 | 7 |
| 65 | Branch and win: OR tree search algorithms for solving combinatorial optimisation problems. Top, 2004, 12, 169-191. | 1.1 | 6 |
| 66 | Solving the response time variability problem by means of the cross-entropy method. International Journal of Manufacturing Technology and Management, 2010, 20, 316. | 0.1 | 6 |
| 67 | Optimizing PV Microgrid Isolated Electrification Projectsâ€”A Case Study in Ecuador. Mathematics, 2022, 10, 1226. | 1.1 | 6 |
| 68 | Comparing ways of breaking symmetries in mathematical models for SALBPâ€1. Assembly Automation, 2011, 31, 385-387. | 1.0 | 5 |
| 69 | Metaheuristic algorithms hybridised with variable neighbourhood search for solving the response time variability problem. Top, 2013, 21, 296-312. | 1.1 | 5 |
| 70 | Metaheuristic procedures for the lexicographic bottleneck assembly line balancing problem. Journal of the Operational Research Society, 2015, 66, 1815-1825. | 2.1 | 5 |
| 71 | Hybrid metaheuristics for the Accessibility Windows Assembly Line Balancing Problem Level 2 (AWALBP-L2). European Journal of Operational Research, 2016, 250, 760-772. | 3.5 | 5 |
| 72 | A step-by-step guide to assist logistics managers in defining efficient re-shelving solutions for retail store deliveries. International Journal of Physical Distribution and Logistics Management, 2018, 48, 952-972. | 4.4 | 5 |

| # | Article | IF | Citations |
|---|---|---|---|
| 73 | A multi-objective optimization approach for the design of stand-alone electrification systems based on renewable energies. Expert Systems With Applications, 2022, 199, 116939. | 4.4 | 5 |
| 74 | A note on â€œA comparative evaluation of assembly line balancing heuristicsâ€• International Journal of Advanced Manufacturing Technology, 2009, 44, 817-817. | 1.5 | 4 |
| 75 | A branch and bound algorithm for the response time variability problem. Journal of Scheduling, 2013, 16, 243-252. | 1.3 | 4 |
| 76 | Solving the accessibility windows assembly line problem level 1 and variant 1 (AWALBP-L1-1) with precedence constraints. European Journal of Operational Research, 2018, 271, 882-895. | 3.5 | 4 |
| 77 | Strategies of node selection in search procedures for solving combinatorial optimization problems: A survey and a general formalization. Top, 2000, 8, 111-134. | 1.1 | 3 |
| 78 | A proposal for a hybrid meta-strategy for combinatorial optimization problems. Journal of Heuristics, 2008, 14, 375-390. | 1.1 | 3 |
| 79 | Designing salespeople's routes with multiple visits of customers: A case study. International Journal of Production Economics, 2009, 119, 46-54. | 5.1 | 3 |
| 80 | Designing greedy algorithms for the flow-shop problem by means of Empirically Adjusted Greedy Heuristics (EAGH). Journal of the Operational Research Society, 2011, 62, 1704-1710. | 2.1 | 3 |
| 81 | Heuristics for the response time variability problem. European Journal of Industrial Engineering, 2012, 6, 751. | 0.5 | 3 |
| 82 | Technical note: a systematic procedure based on CALIBRA and the Nelder & Mead algorithm for fine-tuning metaheuristics. Journal of the Operational Research Society, 2013, 64, 276-282. | 2.1 | 3 |
| 83 | Pure and Hybrid Metaheuristics for the Response Time Variability Problem. , 2013, , 275-311. | | 3 |
| 84 | Minimising maximum response time. Computers and Operations Research, 2013, 40, 2314-2321. | 2.4 | 2 |
| 85 | Technical Note: Relating to the Parameter Values Given by Nelder and Mead in their Algorithm. Computer Journal, 2015, 58, 157-159. | 1.5 | 2 |
| 86 | EXISTENCE AND SIZING OF BUFFERS IN PARALLEL ASSEMBLY LINES WITH MULTI-LINE WORKSTATIONS AND DIFFERENT CYCLE TIMES. Dyna Management, 2021, 9, [10 p.]-[10 p.]. | 0.1 | 2 |
| 87 | MATHEMATICAL MODELS FOR BUFFER SIZING PROBLEMS IN PARALLEL ASSEMBLY LINES WITH MULTI-LINE STATIONS AND DIFFERENT CYCLE TIMES. Dyna (Spain), 2021, 96, 563-563. | 0.1 | 2 |
| 88 | Balancing Cost and Demand in Electricity Access Projects: Case Studies in Ecuador, Mexico and Peru. Mathematics, 2022, 10, 1995. | 1.1 | 2 |
| 89 | A support tool for working time bargaining by considering individual time accounts and annual leave. Production Planning and Control, 2010, 21, 84-98. | 5.8 | 1 |
| 90 | A Metaheuristic Approach to Solve the Alternative Subgraphs Assembly Line Balancing Problem. , 0, , . | | 1 |

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|---|---|---|---|
| 91 | Simulated annealing for improving the solution of the response time variability problem. International Journal of Production Research, 2013, 51, 4911-4920. | 4.9 | 1 |
| 92 | Stabilizing work schedules in a call centre: Expected and unexpected results. OR Insight, 2006, 19, 26-32. | 0.1 | 0 |
| 93 | Scheduling production of multiple part-types in a system with pre-known demands and deterministic inactive time intervals. European Journal of Operational Research, 2009, 193, 639-643. | 3.5 | 0 |
| 94 | A TOOL FOR THE PURCHASING DECISIONS MAKING FROM SUPPLIERS AND THE PRE-SALES SATISFACTION IN AN ONLINE SALES CAMPAING. Dyna (Spain), 2021, 96, 55-61. | 0.1 | 0 |
| 95 | Job assignment. , 2007, , 65-85. | | 0 |
| 96 | Variations in the efficiency of a mathematical programming solver according to the order of the constraints in the model. Journal of Industrial Engineering and Management, 2008, 1, . | 1.0 | 0 |
| 97 | A Parametric Multi-start Algorithm for Solving the Response Time Variability Problem. Lecture Notes in Computer Science, 2010, , 302-309. | 1.0 | 0 |
| 98 | COCTEL DE HEURISTICAS PARA RESOLVER PROBLEMAS DIFICILES. Dyna (Spain), 2012, 87, 275-278. | 0.1 | 0 |
| 99 | EQUILIBRADO DE LINEAS DE MONTAJE CON VENTANAS DE VISIBILIDAD. DESCRIPCION DEL PROBLEMA Y PROCEDIMIENTO HEURISTICO DE RESOLUCION. Dyna (Spain), 2014, 89, 552-559. | 0.1 | 0 |