## José M GarcÃ-a-Nieto

List of Publications by Year in descending order

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| #  | Article   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Semantic modelling of Earth Observation remote sensing. Expert Systems With Applications, 2022, 187, 115838.  | 7.6  | 12        |
| 2  | On theÂUse ofÂExplainable Artificial Intelligence forÂtheÂDifferential Diagnosis ofÂPigmented Skin Lesions.<br>Lecture Notes in Computer Science, 2022, , 319-329.      | 1.3  | 1         |
| 3  | Reconstruction of gene regulatory networks with multi-objective particle swarm optimisers. Applied<br>Intelligence, 2021, 51, 1972-1991.                                | 5.3  | 6         |
| 4  | Ontology-driven approach for KPI meta-modelling, selection and reasoning. International Journal of<br>Information Management, 2021, 58, 102018.                         | 17.5 | 17        |
| 5  | Evolving a Multi-objective Optimization Framework. Springer Tracts in Nature-inspired Computing, 2021, , 175-198.   | 0.7  | 3         |
| 6  | Injecting domain knowledge in multi-objective optimization problems: A semantic approach. Computer<br>Standards and Interfaces, 2021, 78, 103546.                       | 5.4  | 6         |
| 7  | TITAN: A knowledge-based platform for Big Data workflow management. Knowledge-Based Systems, 2021, 232, 107489.   | 7.1  | 9         |
| 8  | FIMED: Flexible management of biomedical data. Computer Methods and Programs in Biomedicine, 2021, 212, 106496.   | 4.7  | 2         |
| 9  | A multi-objective interactive dynamic particle swarm optimizer. Progress in Artificial Intelligence, 2020, 9, 55-65.  | 2.4  | 2         |
| 10 | Optimizing ligand conformations in flexible protein targets: a multi-objective strategy. Soft<br>Computing, 2020, 24, 10705-10719.                                      | 3.6  | 0         |
| 11 | An Ontology-Based Framework for Publishing and Exploiting Linked Open Data: A Use Case on Water<br>Resources Management. Applied Sciences (Switzerland), 2020, 10, 779. | 2.5  | 13        |
| 12 | Qom—A New Hydrologic Prediction Model Enhanced with Multi-Objective Optimization. Applied<br>Sciences (Switzerland), 2020, 10, 251.                                     | 2.5  | 4         |
| 13 | On the design of a framework integrating an optimization engine with streaming technologies. Future<br>Generation Computer Systems, 2020, 107, 538-550.                 | 7.5  | 10        |
| 14 | BIGOWL: Knowledge centered Big Data analytics. Expert Systems With Applications, 2019, 115, 543-556.  | 7.6  | 24        |
| 15 | Multi-objective ligand-protein docking with particle swarm optimizers. Swarm and Evolutionary Computation, 2019, 44, 439-452.   | 8.1  | 10        |
| 16 | Automatic configuration of NSGA-II with jMetal and irace. , 2019, , .   |      | 14        |
| 17 | Efficient Water Quality Prediction Using Supervised Machine Learning. Water (Switzerland), 2019, 11, 2210.  | 2.7  | 198       |
| 18 | jMetalPy: A Python framework for multi-objective optimization with metaheuristics. Swarm and Evolutionary Computation, 2019, 51, 100598.                                | 8.1  | 143       |

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|----|---|-----|-----------|
| 19 | Precision Agriculture Techniques and Practices: From Considerations to Applications. Sensors, 2019, 19, 3796.   | 3.8 | 314       |
| 20 | Inference of gene regulatory networks with multi-objective cellular genetic algorithm.<br>Computational Biology and Chemistry, 2019, 80, 409-418.                           | 2.3 | 5         |
| 21 | VIGLA-M: visual gene expression data analytics. BMC Bioinformatics, 2019, 20, 150.  | 2.6 | 8         |
| 22 | Bio-inspired optimization for the molecular docking problem: State of the art, recent results and perspectives. Applied Soft Computing Journal, 2019, 79, 30-45.            | 7.2 | 13        |
| 23 | InDM2: Interactive Dynamic Multi-Objective Decision Making Using Evolutionary Algorithms. Swarm and Evolutionary Computation, 2018, 40, 184-195.                            | 8.1 | 22        |
| 24 | jMetalSP: A framework for dynamic multi-objective big data optimization. Applied Soft Computing<br>Journal, 2018, 69, 737-748.  | 7.2 | 27        |
| 25 | About Designing an Observer Pattern-Based Architecture for a Multi-objective Metaheuristic<br>Optimization Framework. Studies in Computational Intelligence, 2018, , 50-60. | 0.9 | 2         |
| 26 | Artificial Decision Maker Driven by PSO: An Approach for Testing Reference Point Based Interactive<br>Methods. Lecture Notes in Computer Science, 2018, , 274-285.          | 1.3 | 8         |
| 27 | Extending the Speed-Constrained Multi-objective PSO (SMPSO) with Reference Point Based Preference<br>Articulation. Lecture Notes in Computer Science, 2018, , 298-310.      | 1.3 | 5         |
| 28 | Multiple Sequence Alignment with Multiobjective Metaheuristics. A Comparative Study. International<br>Journal of Intelligent Systems, 2017, 32, 843-861.                    | 5.7 | 8         |
| 29 | Multi-objective Big Data Optimization with jMetal and Spark. Lecture Notes in Computer Science, 2017, ,<br>16-30.   | 1.3 | 16        |
| 30 | Comparing multi-objective metaheuristics for solving a three-objective formulation of multiple sequence alignment. Progress in Artificial Intelligence, 2017, 6, 195-210.   | 2.4 | 14        |
| 31 | A Multi-objective Optimization Framework for Multiple Sequence Alignment with Metaheuristics.<br>Lecture Notes in Computer Science, 2017, , 245-256.                        | 1.3 | 4         |
| 32 | Enhancing semantic consistency in anti-fraud rule-based expert systems. Expert Systems With Applications, 2017, 90, 332-343.  | 7.6 | 22        |
| 33 | M2Align: parallel multiple sequence alignment with a multi-objective metaheuristic. Bioinformatics, 2017, 33, 3011-3017.  | 4.1 | 14        |
| 34 | Intelligent Testing of Traffic Light Programs: Validation in Smart Mobility Scenarios. Mathematical<br>Problems in Engineering, 2016, 2016, 1-19.                           | 1.1 | 11        |
| 35 | Molecular Docking Optimization in the Context of Multi-Drug Resistant and Sensitive EGFR Mutants.<br>Molecules, 2016, 21, 1575.   | 3.8 | 18        |
| 36 | A Study of Archiving Strategies in Multi-objective PSO for Molecular Docking. Lecture Notes in Computer Science, 2016, , 40-52.   | 1.3 | 2         |

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|----|--|------|-----------|
| 37 | An ontology-based data integration approach for web analytics in e-commerce. Expert Systems With Applications, 2016, 63, 20-34.  | 7.6  | 38        |
| 38 | A Fine Grain Sentiment Analysis with Semantics in Tweets. International Journal of Interactive Multimedia and Artificial Intelligence, 2016, 3, 22.                        | 1.3  | 8         |
| 39 | Solving Molecular Docking Problems with Multi-Objective Metaheuristics. Molecules, 2015, 20, 10154-10183.  | 3.8  | 22        |
| 40 | Hybrid PSO6 for hard continuous optimization. Soft Computing, 2015, 19, 1843-1861.   | 3.6  | 2         |
| 41 | Solving molecular flexible docking problems with metaheuristics: A comparative study. Applied Soft<br>Computing Journal, 2015, 28, 379-393.                                | 7.2  | 44        |
| 42 | Reducing vehicle emissions and fuel consumption in the city by using particle swarm optimization.<br>Applied Intelligence, 2015, 42, 389-405.                              | 5.3  | 50        |
| 43 | Optimising traffic lights with metaheuristics: Reduction of car emissions and consumption. , 2014, , .   |      | 9         |
| 44 | Empirical evaluation of distributed Differential Evolution on standard benchmarks. Applied<br>Mathematics and Computation, 2014, 236, 351-366.                             | 2.2  | 20        |
| 45 | Optimal Cycle Program of Traffic Lights With Particle Swarm Optimization. IEEE Transactions on Evolutionary Computation, 2013, 17, 823-839.                                | 10.0 | 135       |
| 46 | Why six informants is optimal in PSO. , 2012, , .  |      | 9         |
| 47 | Parallel multi-swarm optimizer for gene selection in DNA microarrays. Applied Intelligence, 2012, 37, 255-266.   | 5.3  | 43        |
| 48 | Intelligent OLSR Routing Protocol Optimization for VANETs. IEEE Transactions on Vehicular Technology, 2012, 61, 1884-1894.   | 6.3  | 157       |
| 49 | Swarm intelligence for traffic light scheduling: Application to real urban areas. Engineering<br>Applications of Artificial Intelligence, 2012, 25, 274-283.               | 8.1  | 125       |
| 50 | Enhancing the urban road traffic with Swarm Intelligence: A case study of Córdoba city downtown. , 2011, , .   |      | 4         |
| 51 | Restart particle swarm optimization with velocity modulation: a scalability test. Soft Computing, 2011, 15, 2221-2232.   | 3.6  | 51        |
| 52 | Empirical computation of the quasi-optimal number of informants in particle swarm optimization. , 2011, , .  |      | 5         |
| 53 | Automatic tuning of communication protocols for vehicular ad hoc networks using metaheuristics.<br>Engineering Applications of Artificial Intelligence, 2010, 23, 795-805. | 8.1  | 35        |
| 54 | A Study of Multiobjective Metaheuristics When Solving Parameter Scalable Problems. IEEE<br>Transactions on Evolutionary Computation, 2010, 14, 618-635.                    | 10.0 | 107       |

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| #  | Article   | IF  | CITATIONS |
|----|---|-----|-----------|
| 55 | Automatic Parameter Tuning with Metaheuristics of the AODV Routing Protocol for Vehicular Ad-Hoc<br>Networks. Lecture Notes in Computer Science, 2010, , 21-30.       | 1.3 | 34        |
| 56 | Noiseless functions black-box optimization. , 2009, , .   |     | 3         |
| 57 | Particle swarm hybridized with differential evolution. , 2009, , .  |     | 2         |
| 58 | Sensitivity and specificity based multiobjective approach for feature selection: Application to cancer diagnosis. Information Processing Letters, 2009, 109, 887-896. | 0.6 | 88        |
| 59 | SMPSO: A new PSO-based metaheuristic for multi-objective optimization. , 2009, , .  |     | 393       |
| 60 | Multi-Objective Particle Swarm Optimizers: An Experimental Comparison. Lecture Notes in Computer<br>Science, 2009, , 495-509.   | 1.3 | 101       |
| 61 | Hybrid DE-SVM Approach for Feature Selection: Application to Gene Expression Datasets. , 2009, , .  |     | 5         |
| 62 | Comparison of population based metaheuristics for feature selection: Application to microarray data classification. , 2008, , .                                       |     | 35        |
| 63 | Island Based Distributed Differential Evolution: An Experimental Study on Hybrid Testbeds. , 2008, , .  |     | 38        |
| 64 | Using metaheuristic algorithms remotely via ROS. , 2007, , .  |     | 3         |
| 65 | A comparison of PSO and GA approaches for gene selection and classification of microarray data. , 2007, , .   |     | 7         |
| 66 | Gene selection in cancer classification using PSO/SVM and GA/SVM hybrid algorithms. , 2007, , .   |     | 143       |