

JosÃ© M GarcÃ-a-Nieto

List of Publications by Year in descending order

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66
papers

2,751
citations

331259

21
h-index

233125

45
g-index

73
all docs

73
docs citations

73
times ranked

2666
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Semantic modelling of Earth Observation remote sensing. Expert Systems With Applications, 2022, 187, 115838. | 4.4 | 12 |
| 2 | On the Use of Explainable Artificial Intelligence for the Differential Diagnosis of Pigmented Skin Lesions. Lecture Notes in Computer Science, 2022, , 319-329. | 1.0 | 1 |
| 3 | Reconstruction of gene regulatory networks with multi-objective particle swarm optimisers. Applied Intelligence, 2021, 51, 1972-1991. | 3.3 | 6 |
| 4 | Ontology-driven approach for KPI meta-modelling, selection and reasoning. International Journal of Information Management, 2021, 58, 102018. | 10.5 | 17 |
| 5 | Evolving a Multi-objective Optimization Framework. Springer Tracts in Nature-inspired Computing, 2021, , 175-198. | 1.2 | 3 |
| 6 | Injecting domain knowledge in multi-objective optimization problems: A semantic approach. Computer Standards and Interfaces, 2021, 78, 103546. | 3.8 | 6 |
| 7 | TITAN: A knowledge-based platform for Big Data workflow management. Knowledge-Based Systems, 2021, 232, 107489. | 4.0 | 9 |
| 8 | FIMED: Flexible management of biomedical data. Computer Methods and Programs in Biomedicine, 2021, 212, 106496. | 2.6 | 2 |
| 9 | A multi-objective interactive dynamic particle swarm optimizer. Progress in Artificial Intelligence, 2020, 9, 55-65. | 1.5 | 2 |
| 10 | Optimizing ligand conformations in flexible protein targets: a multi-objective strategy. Soft Computing, 2020, 24, 10705-10719. | 2.1 | 0 |
| 11 | An Ontology-Based Framework for Publishing and Exploiting Linked Open Data: A Use Case on Water Resources Management. Applied Sciences (Switzerland), 2020, 10, 779. | 1.3 | 13 |
| 12 | Qomâ€”A New Hydrologic Prediction Model Enhanced with Multi-Objective Optimization. Applied Sciences (Switzerland), 2020, 10, 251. | 1.3 | 4 |
| 13 | On the design of a framework integrating an optimization engine with streaming technologies. Future Generation Computer Systems, 2020, 107, 538-550. | 4.9 | 10 |
| 14 | BIGOWL: Knowledge centered Big Data analytics. Expert Systems With Applications, 2019, 115, 543-556. | 4.4 | 24 |
| 15 | Multi-objective ligand-protein docking with particle swarm optimizers. Swarm and Evolutionary Computation, 2019, 44, 439-452. | 4.5 | 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. | 1.2 | 198 |
| 18 | jMetalPy: A Python framework for multi-objective optimization with metaheuristics. Swarm and Evolutionary Computation, 2019, 51, 100598. | 4.5 | 143 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Precision Agriculture Techniques and Practices: From Considerations to Applications. <i>Sensors</i> , 2019, 19, 3796. | 2.1 | 314 |
| 20 | Inference of gene regulatory networks with multi-objective cellular genetic algorithm. <i>Computational Biology and Chemistry</i> , 2019, 80, 409-418. | 1.1 | 5 |
| 21 | VIGLA-M: visual gene expression data analytics. <i>BMC Bioinformatics</i> , 2019, 20, 150. | 1.2 | 8 |
| 22 | Bio-inspired optimization for the molecular docking problem: State of the art, recent results and perspectives. <i>Applied Soft Computing Journal</i> , 2019, 79, 30-45. | 4.1 | 13 |
| 23 | InDM2: Interactive Dynamic Multi-Objective Decision Making Using Evolutionary Algorithms. <i>Swarm and Evolutionary Computation</i> , 2018, 40, 184-195. | 4.5 | 22 |
| 24 | jMetalSP: A framework for dynamic multi-objective big data optimization. <i>Applied Soft Computing Journal</i> , 2018, 69, 737-748. | 4.1 | 27 |
| 25 | About Designing an Observer Pattern-Based Architecture for a Multi-objective Metaheuristic Optimization Framework. <i>Studies in Computational Intelligence</i> , 2018, , 50-60. | 0.7 | 2 |
| 26 | Artificial Decision Maker Driven by PSO: An Approach for Testing Reference Point Based Interactive Methods. <i>Lecture Notes in Computer Science</i> , 2018, , 274-285. | 1.0 | 8 |
| 27 | Extending the Speed-Constrained Multi-objective PSO (SMPSO) with Reference Point Based Preference Articulation. <i>Lecture Notes in Computer Science</i> , 2018, , 298-310. | 1.0 | 5 |
| 28 | Multiple Sequence Alignment with Multiobjective Metaheuristics. A Comparative Study. <i>International Journal of Intelligent Systems</i> , 2017, 32, 843-861. | 3.3 | 8 |
| 29 | Multi-objective Big Data Optimization with jMetal and Spark. <i>Lecture Notes in Computer Science</i> , 2017, , 16-30. | 1.0 | 16 |
| 30 | Comparing multi-objective metaheuristics for solving a three-objective formulation of multiple sequence alignment. <i>Progress in Artificial Intelligence</i> , 2017, 6, 195-210. | 1.5 | 14 |
| 31 | A Multi-objective Optimization Framework for Multiple Sequence Alignment with Metaheuristics. <i>Lecture Notes in Computer Science</i> , 2017, , 245-256. | 1.0 | 4 |
| 32 | Enhancing semantic consistency in anti-fraud rule-based expert systems. <i>Expert Systems With Applications</i> , 2017, 90, 332-343. | 4.4 | 22 |
| 33 | M2Align: parallel multiple sequence alignment with a multi-objective metaheuristic. <i>Bioinformatics</i> , 2017, 33, 3011-3017. | 1.8 | 14 |
| 34 | Intelligent Testing of Traffic Light Programs: Validation in Smart Mobility Scenarios. <i>Mathematical Problems in Engineering</i> , 2016, 2016, 1-19. | 0.6 | 11 |
| 35 | Molecular Docking Optimization in the Context of Multi-Drug Resistant and Sensitive EGFR Mutants. <i>Molecules</i> , 2016, 21, 1575. | 1.7 | 18 |
| 36 | A Study of Archiving Strategies in Multi-objective PSO for Molecular Docking. <i>Lecture Notes in Computer Science</i> , 2016, , 40-52. | 1.0 | 2 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | An ontology-based data integration approach for web analytics in e-commerce. Expert Systems With Applications, 2016, 63, 20-34. | 4.4 | 38 |
| 38 | A Fine Grain Sentiment Analysis with Semantics in Tweets. International Journal of Interactive Multimedia and Artificial Intelligence, 2016, 3, 22. | 1.0 | 8 |
| 39 | Solving Molecular Docking Problems with Multi-Objective Metaheuristics. Molecules, 2015, 20, 10154-10183. | 1.7 | 22 |
| 40 | Hybrid PSO6 for hard continuous optimization. Soft Computing, 2015, 19, 1843-1861. | 2.1 | 2 |
| 41 | Solving molecular flexible docking problems with metaheuristics: A comparative study. Applied Soft Computing Journal, 2015, 28, 379-393. | 4.1 | 44 |
| 42 | Reducing vehicle emissions and fuel consumption in the city by using particle swarm optimization. Applied Intelligence, 2015, 42, 389-405. | 3.3 | 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 Mathematics and Computation, 2014, 236, 351-366. | 1.4 | 20 |
| 45 | Optimal Cycle Program of Traffic Lights With Particle Swarm Optimization. IEEE Transactions on Evolutionary Computation, 2013, 17, 823-839. | 7.5 | 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. | 3.3 | 43 |
| 48 | Intelligent OLSR Routing Protocol Optimization for VANETs. IEEE Transactions on Vehicular Technology, 2012, 61, 1884-1894. | 3.9 | 157 |
| 49 | Swarm intelligence for traffic light scheduling: Application to real urban areas. Engineering Applications of Artificial Intelligence, 2012, 25, 274-283. | 4.3 | 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. | 2.1 | 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. Engineering Applications of Artificial Intelligence, 2010, 23, 795-805. | 4.3 | 35 |
| 54 | A Study of Multiobjective Metaheuristics When Solving Parameter Scalable Problems. IEEE Transactions on Evolutionary Computation, 2010, 14, 618-635. | 7.5 | 107 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | Automatic Parameter Tuning with Metaheuristics of the AODV Routing Protocol for Vehicular Ad-Hoc Networks. Lecture Notes in Computer Science, 2010, , 21-30. | 1.0 | 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. | 0.4 | 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 Science, 2009, , 495-509. | 1.0 | 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 |