

JosÃ© M GarcÃ-a-Nieto

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8610324/publications.pdf>

Version: 2024-02-01

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	SMPSO: A new PSO-based metaheuristic for multi-objective optimization. , 2009, , .		393
2	Precision Agriculture Techniques and Practices: From Considerations to Applications. Sensors, 2019, 19, 3796.	2.1	314
3	Efficient Water Quality Prediction Using Supervised Machine Learning. Water (Switzerland), 2019, 11, 2210.	1.2	198
4	Intelligent OLSR Routing Protocol Optimization for VANETs. IEEE Transactions on Vehicular Technology, 2012, 61, 1884-1894.	3.9	157
5	Gene selection in cancer classification using PSO/SVM and GA/SVM hybrid algorithms. , 2007, , .		143
6	jMetalPy: A Python framework for multi-objective optimization with metaheuristics. Swarm and Evolutionary Computation, 2019, 51, 100598.	4.5	143
7	Optimal Cycle Program of Traffic Lights With Particle Swarm Optimization. IEEE Transactions on Evolutionary Computation, 2013, 17, 823-839.	7.5	135
8	Swarm intelligence for traffic light scheduling: Application to real urban areas. Engineering Applications of Artificial Intelligence, 2012, 25, 274-283.	4.3	125
9	A Study of Multiobjective Metaheuristics When Solving Parameter Scalable Problems. IEEE Transactions on Evolutionary Computation, 2010, 14, 618-635.	7.5	107
10	Multi-Objective Particle Swarm Optimizers: An Experimental Comparison. Lecture Notes in Computer Science, 2009, , 495-509.	1.0	101
11	Sensitivity and specificity based multiobjective approach for feature selection: Application to cancer diagnosis. Information Processing Letters, 2009, 109, 887-896.	0.4	88
12	Restart particle swarm optimization with velocity modulation: a scalability test. Soft Computing, 2011, 15, 2221-2232.	2.1	51
13	Reducing vehicle emissions and fuel consumption in the city by using particle swarm optimization. Applied Intelligence, 2015, 42, 389-405.	3.3	50
14	Solving molecular flexible docking problems with metaheuristics: A comparative study. Applied Soft Computing Journal, 2015, 28, 379-393.	4.1	44
15	Parallel multi-swarm optimizer for gene selection in DNA microarrays. Applied Intelligence, 2012, 37, 255-266.	3.3	43
16	Island Based Distributed Differential Evolution: An Experimental Study on Hybrid Testbeds. , 2008, , .		38
17	An ontology-based data integration approach for web analytics in e-commerce. Expert Systems With Applications, 2016, 63, 20-34.	4.4	38
18	Comparison of population based metaheuristics for feature selection: Application to microarray data classification. , 2008, , .		35

#	ARTICLE	IF	CITATIONS
19	Automatic tuning of communication protocols for vehicular ad hoc networks using metaheuristics. Engineering Applications of Artificial Intelligence, 2010, 23, 795-805.	4.3	35
20	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
21	jMetalSP: A framework for dynamic multi-objective big data optimization. Applied Soft Computing Journal, 2018, 69, 737-748.	4.1	27
22	BIGOWL: Knowledge centered Big Data analytics. Expert Systems With Applications, 2019, 115, 543-556.	4.4	24
23	Solving Molecular Docking Problems with Multi-Objective Metaheuristics. Molecules, 2015, 20, 10154-10183.	1.7	22
24	Enhancing semantic consistency in anti-fraud rule-based expert systems. Expert Systems With Applications, 2017, 90, 332-343.	4.4	22
25	InDM2: Interactive Dynamic Multi-Objective Decision Making Using Evolutionary Algorithms. Swarm and Evolutionary Computation, 2018, 40, 184-195.	4.5	22
26	Empirical evaluation of distributed Differential Evolution on standard benchmarks. Applied Mathematics and Computation, 2014, 236, 351-366.	1.4	20
27	Molecular Docking Optimization in the Context of Multi-Drug Resistant and Sensitive EGFR Mutants. Molecules, 2016, 21, 1575.	1.7	18
28	Ontology-driven approach for KPI meta-modelling, selection and reasoning. International Journal of Information Management, 2021, 58, 102018.	10.5	17
29	Multi-objective Big Data Optimization with jMetal and Spark. Lecture Notes in Computer Science, 2017, , 16-30.	1.0	16
30	Comparing multi-objective metaheuristics for solving a three-objective formulation of multiple sequence alignment. Progress in Artificial Intelligence, 2017, 6, 195-210.	1.5	14
31	M2Align: parallel multiple sequence alignment with a multi-objective metaheuristic. Bioinformatics, 2017, 33, 3011-3017.	1.8	14
32	Automatic configuration of NSGA-II with jMetal and irace. , 2019, , .		14
33	Bio-inspired optimization for the molecular docking problem: State of the art, recent results and perspectives. Applied Soft Computing Journal, 2019, 79, 30-45.	4.1	13
34	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
35	Semantic modelling of Earth Observation remote sensing. Expert Systems With Applications, 2022, 187, 115838.	4.4	12
36	Intelligent Testing of Traffic Light Programs: Validation in Smart Mobility Scenarios. Mathematical Problems in Engineering, 2016, 2016, 1-19.	0.6	11

#	ARTICLE	IF	CITATIONS
37	Multi-objective ligand-protein docking with particle swarm optimizers. Swarm and Evolutionary Computation, 2019, 44, 439-452.	4.5	10
38	On the design of a framework integrating an optimization engine with streaming technologies. Future Generation Computer Systems, 2020, 107, 538-550.	4.9	10
39	Why six informants is optimal in PSO. , 2012, , .		9
40	Optimising traffic lights with metaheuristics: Reduction of car emissions and consumption. , 2014, , .		9
41	TITAN: A knowledge-based platform for Big Data workflow management. Knowledge-Based Systems, 2021, 232, 107489.	4.0	9
42	Multiple Sequence Alignment with Multiobjective Metaheuristics. A Comparative Study. International Journal of Intelligent Systems, 2017, 32, 843-861.	3.3	8
43	Artificial Decision Maker Driven by PSO: An Approach for Testing Reference Point Based Interactive Methods. Lecture Notes in Computer Science, 2018, , 274-285.	1.0	8
44	VIGLA-M: visual gene expression data analytics. BMC Bioinformatics, 2019, 20, 150.	1.2	8
45	A Fine Grain Sentiment Analysis with Semantics in Tweets. International Journal of Interactive Multimedia and Artificial Intelligence, 2016, 3, 22.	1.0	8
46	A comparison of PSO and GA approaches for gene selection and classification of microarray data. , 2007, , .		7
47	Reconstruction of gene regulatory networks with multi-objective particle swarm optimisers. Applied Intelligence, 2021, 51, 1972-1991.	3.3	6
48	Injecting domain knowledge in multi-objective optimization problems: A semantic approach. Computer Standards and Interfaces, 2021, 78, 103546.	3.8	6
49	Hybrid DE-SVM Approach for Feature Selection: Application to Gene Expression Datasets. , 2009, , .		5
50	Empirical computation of the quasi-optimal number of informants in particle swarm optimization. , 2011, , .		5
51	Extending the Speed-Constrained Multi-objective PSO (SMPSO) with Reference Point Based Preference Articulation. Lecture Notes in Computer Science, 2018, , 298-310.	1.0	5
52	Inference of gene regulatory networks with multi-objective cellular genetic algorithm. Computational Biology and Chemistry, 2019, 80, 409-418.	1.1	5
53	Enhancing the urban road traffic with Swarm Intelligence: A case study of Córdoba city downtown. , 2011, , .		4
54	A Multi-objective Optimization Framework for Multiple Sequence Alignment with Metaheuristics. Lecture Notes in Computer Science, 2017, , 245-256.	1.0	4

#	ARTICLE	IF	CITATIONS
55	Qomâ€”A New Hydrologic Prediction Model Enhanced with Multi-Objective Optimization. Applied Sciences (Switzerland), 2020, 10, 251.	1.3	4
56	Using metaheuristic algorithms remotely via ROS. , 2007, , .		3
57	Noiseless functions black-box optimization. , 2009, , .		3
58	Evolving a Multi-objective Optimization Framework. Springer Tracts in Nature-inspired Computing, 2021, , 175-198.	1.2	3
59	Particle swarm hybridized with differential evolution. , 2009, , .		2
60	Hybrid PSO6 for hard continuous optimization. Soft Computing, 2015, 19, 1843-1861.	2.1	2
61	A Study of Archiving Strategies in Multi-objective PSO for Molecular Docking. Lecture Notes in Computer Science, 2016, , 40-52.	1.0	2
62	About Designing an Observer Pattern-Based Architecture for a Multi-objective Metaheuristic Optimization Framework. Studies in Computational Intelligence, 2018, , 50-60.	0.7	2
63	A multi-objective interactive dynamic particle swarm optimizer. Progress in Artificial Intelligence, 2020, 9, 55-65.	1.5	2
64	FIMED: Flexible management of biomedical data. Computer Methods and Programs in Biomedicine, 2021, 212, 106496.	2.6	2
65	On theÂUse ofÂExplainable Artificial Intelligence forÂtheÂDifferential Diagnosis ofÂPigmented Skin Lesions. Lecture Notes in Computer Science, 2022, , 319-329.	1.0	1
66	Optimizing ligand conformations in flexible protein targets: a multi-objective strategy. Soft Computing, 2020, 24, 10705-10719.	2.1	0