

# Jos M Garca-Nieto

## List of Publications by Citations

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72  
papers

1,773  
citations

22  
h-index

41  
g-index

73  
ext. papers

2,238  
ext. citations

4.5  
avg, IF

5.07  
L-index

#	Paper	IF	Citations
72	SMP SO: A new PSO-based metaheuristic for multi-objective optimization <b>2009</b> ,		276
71	Precision Agriculture Techniques and Practices: From Considerations to Applications. <i>Sensors</i> , <b>2019</b> , 19,	3.8	133
70	Intelligent OLSR Routing Protocol Optimization for VANETs. <i>IEEE Transactions on Vehicular Technology</i> , <b>2012</b> , 61, 1884-1894	6.8	116
69	Optimal Cycle Program of Traffic Lights With Particle Swarm Optimization. <i>IEEE Transactions on Evolutionary Computation</i> , <b>2013</b> , 17, 823-839	15.6	105
68	Gene selection in cancer classification using PSO/SVM and GA/SVM hybrid algorithms <b>2007</b> ,		98
67	Swarm intelligence for traffic light scheduling: Application to real urban areas. <i>Engineering Applications of Artificial Intelligence</i> , <b>2012</b> , 25, 274-283	7.2	88
66	. <i>IEEE Transactions on Evolutionary Computation</i> , <b>2010</b> , 14, 618-635	15.6	83
65	Multi-Objective Particle Swarm Optimizers: An Experimental Comparison. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 495-509	0.9	73
64	Sensitivity and specificity based multiobjective approach for feature selection: Application to cancer diagnosis. <i>Information Processing Letters</i> , <b>2009</b> , 109, 887-896	0.8	72
63	jMetalPy: A Python framework for multi-objective optimization with metaheuristics. <i>Swarm and Evolutionary Computation</i> , <b>2019</b> , 51, 100598	9.8	64
62	Efficient Water Quality Prediction Using Supervised Machine Learning. <i>Water (Switzerland)</i> , <b>2019</b> , 11, 2210	3	63
61	Restart particle swarm optimization with velocity modulation: a scalability test. <i>Soft Computing</i> , <b>2011</b> , 15, 2221-2232	3.5	41
60	Solving molecular flexible docking problems with metaheuristics: A comparative study. <i>Applied Soft Computing Journal</i> , <b>2015</b> , 28, 379-393	7.5	40
59	Parallel multi-swarm optimizer for gene selection in DNA microarrays. <i>Applied Intelligence</i> , <b>2012</b> , 37, 255-266	4.9	37
58	Reducing vehicle emissions and fuel consumption in the city by using particle swarm optimization. <i>Applied Intelligence</i> , <b>2015</b> , 42, 389-405	4.9	35
57	Automatic tuning of communication protocols for vehicular ad hoc networks using metaheuristics. <i>Engineering Applications of Artificial Intelligence</i> , <b>2010</b> , 23, 795-805	7.2	32
56	Island Based Distributed Differential Evolution: An Experimental Study on Hybrid Testbeds <b>2008</b> ,		31

55	Comparison of population based metaheuristics for feature selection: Application to microarray data classification <b>2008</b> ,		27
54	An ontology-based data integration approach for web analytics in e-commerce. <i>Expert Systems With Applications</i> , <b>2016</b> , 63, 20-34	7.8	25
53	Automatic Parameter Tuning with Metaheuristics of the AODV Routing Protocol for Vehicular Ad-Hoc Networks. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 21-30	0.9	24
52	jMetalSP: A framework for dynamic multi-objective big data optimization. <i>Applied Soft Computing Journal</i> , <b>2018</b> , 69, 737-748	7.5	23
51	New Research in Nature Inspired Algorithms for Mobility Management in GSM Networks. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 1-10	0.9	22
50	Solving molecular docking problems with multi-objective metaheuristics. <i>Molecules</i> , <b>2015</b> , 20, 10154-83	4.8	20
49	Empirical evaluation of distributed Differential Evolution on standard benchmarks. <i>Applied Mathematics and Computation</i> , <b>2014</b> , 236, 351-366	2.7	19
48	InDM2: Interactive Dynamic Multi-Objective Decision Making Using Evolutionary Algorithms. <i>Swarm and Evolutionary Computation</i> , <b>2018</b> , 40, 184-195	9.8	16
47	Enhancing semantic consistency in anti-fraud rule-based expert systems. <i>Expert Systems With Applications</i> , <b>2017</b> , 90, 332-343	7.8	14
46	Multi-objective Big Data Optimization with jMetal and Spark. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 16-30	0.9	13
45	BIGOWL: Knowledge centered Big Data analytics. <i>Expert Systems With Applications</i> , <b>2019</b> , 115, 543-556	7.8	12
44	M2Align: parallel multiple sequence alignment with a multi-objective metaheuristic. <i>Bioinformatics</i> , <b>2017</b> , 33, 3011-3017	7.2	11
43	Molecular Docking Optimization in the Context of Multi-Drug Resistant and Sensitive EGFR Mutants. <i>Molecules</i> , <b>2016</b> , 21,	4.8	9
42	Comparing multi-objective metaheuristics for solving a three-objective formulation of multiple sequence alignment. <i>Progress in Artificial Intelligence</i> , <b>2017</b> , 6, 195-210	4	8
41	Bio-inspired optimization for the molecular docking problem: State of the art, recent results and perspectives. <i>Applied Soft Computing Journal</i> , <b>2019</b> , 79, 30-45	7.5	8
40	Ontology-driven approach for KPI meta-modelling, selection and reasoning. <i>International Journal of Information Management</i> , <b>2021</b> , 58, 102018	16.4	8
39	An Ontology-Based Framework for Publishing and Exploiting Linked Open Data: A Use Case on Water Resources Management. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 779	2.6	7
38	A New Multi-objective Approach for Molecular Docking Based on RMSD and Binding Energy. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 65-77	0.9	7

37	Multi-objective ligand-protein docking with particle swarm optimizers. <i>Swarm and Evolutionary Computation</i> , <b>2019</b> , 44, 439-452	9.8	7
36	A comparison of PSO and GA approaches for gene selection and classification of microarray data <b>2007</b> ,		7
35	A Fine Grain Sentiment Analysis with Semantics in Tweets. <i>International Journal of Interactive Multimedia and Artificial Intelligence</i> , <b>2016</b> , 3, 22	3.8	7
34	Why six informants is optimal in PSO <b>2012</b> ,		6
33	Multiple Sequence Alignment with Multiobjective Metaheuristics. A Comparative Study. <i>International Journal of Intelligent Systems</i> , <b>2017</b> , 32, 843-861	8.4	5
32	VIGLA-M: visual gene expression data analytics. <i>BMC Bioinformatics</i> , <b>2019</b> , 20, 150	3.6	5
31	On the design of a framework integrating an optimization engine with streaming technologies. <i>Future Generation Computer Systems</i> , <b>2020</b> , 107, 538-550	7.5	5
30	Empirical computation of the quasi-optimal number of informants in particle swarm optimization <b>2011</b> ,		5
29	Intelligent Testing of Traffic Light Programs: Validation in Smart Mobility Scenarios. <i>Mathematical Problems in Engineering</i> , <b>2016</b> , 2016, 1-19	1.1	5
28	A Multi-objective Optimization Framework for Multiple Sequence Alignment with Metaheuristics. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 245-256	0.9	4
27	Automatic configuration of NSGA-II with jMetal and irace <b>2019</b> ,		4
26	Hybrid DE-SVM Approach for Feature Selection: Application to Gene Expression Datasets <b>2009</b> ,		4
25	Dynamic Multi-Objective Optimization with jMetal and Spark: A Case Study. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 106-117	0.9	4
24	Artificial Decision Maker Driven by PSO: An Approach for Testing Reference Point Based Interactive Methods. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 274-285	0.9	4
23	Inference of gene regulatory networks with multi-objective cellular genetic algorithm. <i>Computational Biology and Chemistry</i> , <b>2019</b> , 80, 409-418	3.6	3
22	Qom: A New Hydrologic Prediction Model Enhanced with Multi-Objective Optimization. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 251	2.6	3
21	Optimising traffic lights with metaheuristics: Reduction of car emissions and consumption <b>2014</b> ,		3
20	Enhancing the urban road traffic with Swarm Intelligence: A case study of Córdoba city downtown <b>2011</b> ,		3

19	Noiseless functions black-box optimization <b>2009</b> ,		3
18	Using metaheuristic algorithms remotely via ROS <b>2007</b> ,		3
17	Extending the Speed-Constrained Multi-objective PSO (SMPSO) with Reference Point Based Preference Articulation. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 298-310	0.9	3
16	Injecting domain knowledge in multi-objective optimization problems: A semantic approach. <i>Computer Standards and Interfaces</i> , <b>2021</b> , 78, 103546	3.5	3
15	Hybrid PSO6 for hard continuous optimization. <i>Soft Computing</i> , <b>2015</b> , 19, 1843-1861	3.5	2
14	On the Velocity Update in Multi-Objective Particle Swarm Optimizers. <i>Studies in Computational Intelligence</i> , <b>2010</b> , 45-62	0.8	2
13	Reconstruction of gene regulatory networks with multi-objective particle swarm optimisers. <i>Applied Intelligence</i> , <b>2021</b> , 51, 1972-1991	4.9	2
12	About Designing an Observer Pattern-Based Architecture for a Multi-objective Metaheuristic Optimization Framework. <i>Studies in Computational Intelligence</i> , <b>2018</b> , 50-60	0.8	2
11	TITAN: A knowledge-based platform for Big Data workflow management. <i>Knowledge-Based Systems</i> , <b>2021</b> , 232, 107489	7.3	2
10	Semantic modelling of Earth Observation remote sensing. <i>Expert Systems With Applications</i> , <b>2022</b> , 187, 115838	7.8	2
9	A Study of Archiving Strategies in Multi-objective PSO for Molecular Docking. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 40-52	0.9	1
8	FIMED: Flexible management of biomedical data. <i>Computer Methods and Programs in Biomedicine</i> , <b>2021</b> , 212, 106496	6.9	1
7	A multi-objective interactive dynamic particle swarm optimizer. <i>Progress in Artificial Intelligence</i> , <b>2020</b> , 9, 55-65	4	1
6	Scalable Inference of Gene Regulatory Networks with the Spark Distributed Computing Platform. <i>Studies in Computational Intelligence</i> , <b>2018</b> , 61-70	0.8	1
5	Remote Optimization Service <b>2009</b> , 443-456		
4	Optimizing ligand conformations in flexible protein targets: a multi-objective strategy. <i>Soft Computing</i> , <b>2020</b> , 24, 10705-10719	3.5	
3	Evolving a Multi-objective Optimization Framework. <i>Springer Tracts in Nature-inspired Computing</i> , <b>2021</b> , 175-198	1.8	
2	A Service for Flexible Management and Analysis of Heterogeneous Clinical Data. <i>Lecture Notes in Computer Science</i> , <b>2022</b> , 227-238	0.9	

- 1 On the Use of Explainable Artificial Intelligence for the Differential Diagnosis of Pigmented Skin Lesions. *Lecture Notes in Computer Science*, **2022**, 319-329 0.9