Jos M Garca-Nieto

List of Publications by Year in Descending Order

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	Semantic modelling of Earth Observation remote sensing. *Expert Systems With Applications*, **2022**, 187, 115838	7.8	2
71	A Service for Flexible Management and Analysis of Heterogeneous Clinical Data. *Lecture Notes in Computer Science*, **2022**, 227-238	0.9	
70	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	
69	FIMED: Flexible management of biomedical data. *Computer Methods and Programs in Biomedicine*, **2021**, 212, 106496	6.9	1
68	Reconstruction of gene regulatory networks with multi-objective particle swarm optimisers. *Applied Intelligence*, **2021**, 51, 1972-1991	4.9	2
67	Ontology-driven approach for KPI meta-modelling, selection and reasoning. *International Journal of Information Management*, **2021**, 58, 102018	16.4	8
66	Evolving a Multi-objective Optimization Framework. *Springer Tracts in Nature-inspired Computing*, **2021**, 175-198	1.8	
65	Injecting domain knowledge in multi-objective optimization problems: A semantic approach. *Computer Standards and Interfaces*, **2021**, 78, 103546	3.5	3
64	TITAN: A knowledge-based platform for Big Data workflow management. *Knowledge-Based Systems* , **2021**, 232, 107489	7.3	2
63	An Ontology-Based Framework for Publishing and Exploiting Linked Open Data: A Use Case on Water Resources Management. *Applied Sciences (Switzerland)*, **2020**, 10, 779	2.6	7
62	QomA New Hydrologic Prediction Model Enhanced with Multi-Objective Optimization. *Applied Sciences (Switzerland)*, **2020**, 10, 251	2.6	3
61	On the design of a framework integrating an optimization engine with streaming technologies. *Future Generation Computer Systems*, **2020**, 107, 538-550	7.5	5
60	Optimizing ligand conformations in flexible protein targets: a multi-objective strategy. *Soft Computing*, **2020**, 24, 10705-10719	3.5	
59	A multi-objective interactive dynamic particle swarm optimizer. *Progress in Artificial Intelligence*, **2020**, 9, 55-65	4	1
58	Precision Agriculture Techniques and Practices: From Considerations to Applications. *Sensors*, **2019**, 19,	3.8	133
57	Inference of gene regulatory networks with multi-objective cellular genetic algorithm. *Computational Biology and Chemistry*, **2019**, 80, 409-418	3.6	3
56	VIGLA-M: visual gene expression data analytics. *BMC Bioinformatics*, **2019**, 20, 150	3.6	5

55	Bio-inspired optimization for the molecular docking problem: State of the art, recent results and perspectives. *Applied Soft Computing Journal*, **2019**, 79, 30-45	7.5	8
54	BIGOWL: Knowledge centered Big Data analytics. *Expert Systems With Applications*, **2019**, 115, 543-556	7.8	12
53	Multi-objective ligand-protein docking with particle swarm optimizers. *Swarm and Evolutionary Computation*, **2019**, 44, 439-452	9.8	7
52	Automatic configuration of NSGA-II with jMetal and irace **2019**,		4
51	Efficient Water Quality Prediction Using Supervised Machine Learning. *Water (Switzerland)*, **2019**, 11, 2210	3	63
50	jMetalPy: A Python framework for multi-objective optimization with metaheuristics. *Swarm and Evolutionary Computation*, **2019**, 51, 100598	9.8	64
49	InDM2: Interactive Dynamic Multi-Objective Decision Making Using Evolutionary Algorithms. *Swarm and Evolutionary Computation*, **2018**, 40, 184-195	9.8	16
48	jMetalSP: A framework for dynamic multi-objective big data optimization. *Applied Soft Computing Journal*, **2018**, 69, 737-748	7.5	23
47	Scalable Inference of Gene Regulatory Networks with the Spark Distributed Computing Platform. *Studies in Computational Intelligence*, **2018**, 61-70	0.8	1
46	About Designing an Observer Pattern-Based Architecture for a Multi-objective Metaheuristic Optimization Framework. *Studies in Computational Intelligence*, **2018**, 50-60	0.8	2
45	Artificial Decision Maker Driven by PSO: An Approach for Testing Reference Point Based Interactive Methods. *Lecture Notes in Computer Science*, **2018**, 274-285	0.9	4
44	Extending the Speed-Constrained Multi-objective PSO (SMPSO) with Reference Point Based Preference Articulation. *Lecture Notes in Computer Science*, **2018**, 298-310	0.9	3
43	Multiple Sequence Alignment with Multiobjective Metaheuristics. A Comparative Study. *International Journal of Intelligent Systems*, **2017**, 32, 843-861	8.4	5
42	Multi-objective Big Data Optimization with jMetal and Spark. *Lecture Notes in Computer Science*, **2017**, 16-30	0.9	13
41	Comparing multi-objective metaheuristics for solving a three-objective formulation of multiple sequence alignment. *Progress in Artificial Intelligence*, **2017**, 6, 195-210	4	8
40	A Multi-objective Optimization Framework for Multiple Sequence Alignment with Metaheuristics. *Lecture Notes in Computer Science*, **2017**, 245-256	0.9	4
39	Enhancing semantic consistency in anti-fraud rule-based expert systems. *Expert Systems With Applications*, **2017**, 90, 332-343	7.8	14
38	M2Align: parallel multiple sequence alignment with a multi-objective metaheuristic. *Bioinformatics*, **2017**, 33, 3011-3017	7.2	11

37	A Study of Archiving Strategies in Multi-objective PSO for Molecular Docking. *Lecture Notes in Computer Science*, **2016**, 40-52	0.9	1
36	An ontology-based data integration approach for web analytics in e-commerce. *Expert Systems With Applications*, **2016**, 63, 20-34	7.8	25
35	A New Multi-objective Approach for Molecular Docking Based on RMSD and Binding Energy. *Lecture Notes in Computer Science*, **2016**, 65-77	0.9	7
34	A Fine Grain Sentiment Analysis with Semantics in Tweets. *International Journal of Interactive Multimedia and Artificial Intelligence*, **2016**, 3, 22	3.8	7
33	Dynamic Multi-Objective Optimization with jMetal and Spark: A Case Study. *Lecture Notes in Computer Science*, **2016**, 106-117	0.9	4
32	Intelligent Testing of Traffic Light Programs: Validation in Smart Mobility Scenarios. *Mathematical Problems in Engineering*, **2016**, 2016, 1-19	1.1	5
31	Molecular Docking Optimization in the Context of Multi-Drug Resistant and Sensitive EGFR Mutants. *Molecules*, **2016**, 21,	4.8	9
30	Reducing vehicle emissions and fuel consumption in the city by using particle swarm optimization. *Applied Intelligence*, **2015**, 42, 389-405	4.9	35
29	Solving molecular docking problems with multi-objective metaheuristics. *Molecules*, **2015**, 20, 10154-83	4.8	20
28	Hybrid PSO6 for hard continuous optimization. *Soft Computing*, **2015**, 19, 1843-1861	3.5	2
27	Solving molecular flexible docking problems with metaheuristics: A comparative study. *Applied Soft Computing Journal*, **2015**, 28, 379-393	7.5	40
26	Empirical evaluation of distributed Differential Evolution on standard benchmarks. *Applied Mathematics and Computation*, **2014**, 236, 351-366	2.7	19
25	Optimising traffic lights with metaheuristics: Reduction of car emissions and consumption **2014**,		3
24	Optimal Cycle Program of Traffic Lights With Particle Swarm Optimization. *IEEE Transactions on Evolutionary Computation*, **2013**, 17, 823-839	15.6	105
23	Swarm intelligence for traffic light scheduling: Application to real urban areas. *Engineering Applications of Artificial Intelligence*, **2012**, 25, 274-283	7.2	88
22	Parallel multi-swarm optimizer for gene selection in DNA microarrays. *Applied Intelligence*, **2012**, 37, 255-266	4.9	37
21	Intelligent OLSR Routing Protocol Optimization for VANETs. *IEEE Transactions on Vehicular Technology*, **2012**, 61, 1884-1894	6.8	116
20	Why six informants is optimal in PSO **2012**,		6

19	Restart particle swarm optimization with velocity modulation: a scalability test. *Soft Computing*, **2011**, 15, 2221-2232	3.5	41
18	Enhancing the urban road traffic with Swarm Intelligence: A case study of Cdoba city downtown **2011**,		3
17	Empirical computation of the quasi-optimal number of informants in particle swarm optimization **2011**,		5
16	On the Velocity Update in Multi-Objective Particle Swarm Optimizers. *Studies in Computational Intelligence*, **2010**, 45-62	0.8	2
15	Automatic Parameter Tuning with Metaheuristics of the AODV Routing Protocol for Vehicular Ad-Hoc Networks. *Lecture Notes in Computer Science*, **2010**, 21-30	0.9	24
14	Automatic tuning of communication protocols for vehicular ad hoc networks using metaheuristics. *Engineering Applications of Artificial Intelligence*, **2010**, 23, 795-805	7.2	32
13	. *IEEE Transactions on Evolutionary Computation*, **2010**, 14, 618-635	15.6	83
12	Noiseless functions black-box optimization **2009**,		3
11	Sensitivity and specificity based multiobjective approach for feature selection: Application to cancer diagnosis. *Information Processing Letters*, **2009**, 109, 887-896	0.8	72
10	SMPSO: A new PSO-based metaheuristic for multi-objective optimization **2009**,		276
9	Multi-Objective Particle Swarm Optimizers: An Experimental Comparison. *Lecture Notes in Computer Science*, **2009**, 495-509	0.9	73
8	Hybrid DE-SVM Approach for Feature Selection: Application to Gene Expression Datasets **2009**,		4
7	Remote Optimization Service **2009**, 443-456		
6	Comparison of population based metaheuristics for feature selection: Application to microarray data classification **2008**,		27
5	Island Based Distributed Differential Evolution: An Experimental Study on Hybrid Testbeds **2008**,		31
4	New Research in Nature Inspired Algorithms for Mobility Management in GSM Networks. *Lecture Notes in Computer Science*, **2008**, 1-10	0.9	22
3	Using metaheuristic algorithms remotely via ROS **2007**,		3
2	A comparison of PSO and GA approaches for gene selection and classification of microarray data **2007**,		7

1 Gene selection in cancer classification using PSO/SVM and GA/SVM hybrid algorithms **2007**, 98