

# Juan Martin Carpio Valadez

## List of Publications by Year in descending order

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Version: 2024-02-01

55  
papers

711  
citations

840585

11  
h-index

580701

25  
g-index

65  
all docs

65  
docs citations

65  
times ranked

595  
citing authors

#	ARTICLE	IF	CITATIONS
1	Encryption and decryption of images with chaotic map lattices. Chaos, 2006, 16, 033118.	1.0	126
2	Wavefront fitting with discrete orthogonal polynomials in a unit radius circle. Optical Engineering, 1990, 29, 672.	0.5	91
3	Effective learning hyper-heuristics for the course timetabling problem. European Journal of Operational Research, 2014, 238, 77-86.	3.5	69
4	Optimal Hyper-Parameter Tuning of SVM Classifiers With Application to Medical Diagnosis. IEEE Access, 2018, 6, 7164-7176.	2.6	59
5	A novel formulation of orthogonal polynomial kernel functions for SVM classifiers: The Gegenbauer family. Pattern Recognition, 2018, 84, 211-225.	5.1	57
6	Iterated local search using an add and delete hyper-heuristic for university course timetabling. Applied Soft Computing Journal, 2016, 40, 581-593.	4.1	48
7	Automatic fringe detection algorithm used for moire deflectometry. Applied Optics, 1990, 29, 3266.	2.1	31
8	Hyper-Parameter Tuning for Support Vector Machines by Estimation of Distribution Algorithms. Studies in Computational Intelligence, 2017, , 787-800.	0.7	22
9	Design of Spiking Central Pattern Generators for Multiple Locomotion Gaits in Hexapod Robots by Christiansen Grammar Evolution. Frontiers in Neurorobotics, 2016, 10, 6.	1.6	19
10	Evolutionary Spiking Neural Networks for Solving Supervised Classification Problems. Computational Intelligence and Neuroscience, 2019, 2019, 1-13.	1.1	14
11	Evolvability metrics in adaptive operator selection. , 2014, , .		13
12	Evolving Bin Packing Heuristic Using Micro-Differential Evolution with Indirect Representation. Studies in Computational Intelligence, 2013, , 349-359.	0.7	13
13	Application of the Bee Swarm Optimization BSO to the Knapsack Problem. Studies in Computational Intelligence, 2010, , 191-206.	0.7	8
14	Closed cartesian representation of the Zernike polynomials. Optics Communications, 1994, 110, 514-516.	1.0	7
15	Comparison of Metaheuristic Algorithms with a Methodology of Design for the Evaluation of Hard Constraints over the Course Timetabling Problem. Studies in Computational Intelligence, 2013, , 289-302.	0.7	7
16	Parameter optimization for the smoothed-particle hydrodynamics method by means of evolutionary metaheuristics. Computer Physics Communications, 2019, 243, 30-40.	3.0	7
17	Comparison of PSO and DE for Training Neural Networks. , 2011, , .		6
18	Improving the Bin Packing Heuristic through Grammatical Evolution Based on Swarm Intelligence. Mathematical Problems in Engineering, 2014, 2014, 1-12.	0.6	6

#	ARTICLE	IF	CITATIONS
19	A Comparation between Bee Swarm Optimization and Greedy Algorithm for the Knapsack Problem with Bee Reallocation. , 2010, , .		5
20	A heterogeneous cellular processing algorithm for minimizing the power consumption in wireless communications systems. Computational Optimization and Applications, 2015, 62, 787-814.	0.9	5
21	Evolutionary Design of Problem-Adapted Image Descriptors for Texture Classification. IEEE Access, 2018, 6, 40450-40462.	2.6	5
22	A novel model for optimization of Intelligent Multi-User Visual Comfort System based on soft-computing algorithms. Journal of Ambient Intelligence and Smart Environments, 2021, 13, 95-116.	0.8	5
23	Comparing Metaheuristic Algorithms on the Training Process of Spiking Neural Networks. Studies in Computational Intelligence, 2014, , 391-403.	0.7	5
24	Improving Iterated Local Search Solution for the Linear Ordering Problem with Cumulative Costs (LOPCC). Lecture Notes in Computer Science, 2010, , 183-192.	1.0	5
25	A firefly algorithm for modular granular neural networks optimization applied to iris recognition. , 2016, , .		4
26	Increase Methodology of Design of Course Timetabling Problem for Students, Classrooms, and Teachers. Studies in Computational Intelligence, 2017, , 713-728.	0.7	4
27	Partially-Connected Artificial Neural Networks Developed by Grammatical Evolution for Pattern Recognition Problems. Studies in Computational Intelligence, 2018, , 99-112.	0.7	4
28	Bio-inspired Metaheuristics for Hyper-parameter Tuning of Support Vector Machine Classifiers. Studies in Computational Intelligence, 2018, , 115-130.	0.7	4
29	Symmetric-Approximation Energy-Based Estimation of Distribution (SEED): A Continuous Optimization Algorithm. IEEE Access, 2019, 7, 154859-154871.	2.6	4
30	Comparative Study on Constructive Heuristics for the Vertex Separation Problem. Studies in Computational Intelligence, 2015, , 465-474.	0.7	4
31	Variable Length Number Chains Generation without Repetitions. Studies in Computational Intelligence, 2010, , 349-364.	0.7	4
32	Iterated VND Versus Hyper-heuristics: Effective and General Approaches to Course Timetabling. Studies in Computational Intelligence, 2017, , 687-700.	0.7	3
33	A Methodology to Determine the Subset of Heuristics for Hyperheuristics through Metalearning for Solving Graph Coloring and Capacitated Vehicle Routing Problems. Complexity, 2021, 2021, 1-22.	0.9	3
34	Integer Linear Programming Formulation and Exact Algorithm for Computing Pathwidth. Studies in Computational Intelligence, 2017, , 673-686.	0.7	3
35	Comparing Evolutionary Strategy Algorithms for Training Spiking Neural Networks. Research in Computing Science, 2015, 96, 9-17.	0.1	3
36	A New Approach of Design for the Academic Timetabling Problem through Genetic Algorithms. , 2010, , .		2

#	ARTICLE	IF	CITATIONS
37	3D Object Reconstruction Using Structured Light and Neural Networks. , 2010, , .		2
38	Evolving and reusing Bin Packing heuristic through Grammatical Differential Evolution. , 2013, , .		2
39	Developing Architectures of Spiking Neural Networks by Using Grammatical Evolution Based on Evolutionary Strategy. Lecture Notes in Computer Science, 2014, , 71-80.	1.0	2
40	Parallel Meta-heuristic Approaches to the Course Timetabling Problem. Studies in Computational Intelligence, 2015, , 391-417.	0.7	2
41	Generating Bin Packing Heuristic Through Grammatical Evolution Based on Bee Swarm Optimization. Studies in Computational Intelligence, 2017, , 655-671.	0.7	2
42	Optimization of the Parameters of Smoothed Particle Hydrodynamics Method, Using Evolutionary Algorithms. Studies in Computational Intelligence, 2018, , 153-167.	0.7	2
43	Experimental Study of a New Algorithm-Design-Framework Based on Cellular Computing. Studies in Computational Intelligence, 2013, , 517-532.	0.7	2
44	Direct phase detection of lateral shear interferograms using a phase-locked loop. Optics Communications, 1994, 108, 225-229.	1.0	1
45	Several Strategies to Improve the Performance of Hyperheuristics for Academic Timetabling Design Problem. , 2010, , .		1
46	Comparing Grammatical Evolution's Mapping Processes on Feature Generation for Pattern Recognition Problems. Studies in Computational Intelligence, 2017, , 775-785.	0.7	1
47	Translation of Natural Language Queries to SQL that Involve Aggregate Functions, Grouping and Subqueries for a Natural Language Interface to Databases. Studies in Computational Intelligence, 2018, , 431-448.	0.7	1
48	Monitoreo de emociones aplicadas a terapias basadas en juegos y l�gica difusa para adultos mayores. Research in Computing Science, 2015, 92, 81-90.	0.1	1
49	One Criterion for the Selection of the Cardinality of Learning Set Used by the Associative Pattern Classifier. , 2010, , .		0
50	Hybrid Algorithm to Data Clustering. Lecture Notes in Computer Science, 2009, , 678-685.	1.0	0
51	Academic Timetabling Design Using Hyper-Heuristics. Studies in Computational Intelligence, 2010, , 43-56.	0.7	0
52	Homogeneous Population Solving the Minimal Perturbation Problem in Dynamic Scheduling of Surgeries. Lecture Notes in Computer Science, 2013, , 473-484.	1.0	0
53	Descriptores basados en combinaciones lineales de polinomios de Jacobi aplicados en la caracterizaci3n de melanoma, comparados estad�sticamente con los momentos de Hu. Research in Computing Science, 2014, 74, 143-156.	0.1	0
54	A Novel Set of Moment Invariants for Pattern Recognition Applications Based on Jacobi Polynomials. Lecture Notes in Computer Science, 2020, , 139-148.	1.0	0

#	ARTICLE	IF	CITATIONS
55	Improved training of deep convolutional networks via minimum-variance regularized adaptive sampling. Soft Computing, 0, , .	2.1	0